

Dickinson College Bulletin



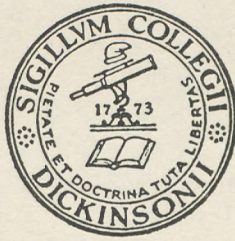
1959
ANNUAL CATALOGUE ISSUE
ANNOUNCEMENTS 1959-1960



CARLISLE - PENNSYLVANIA

DICKINSON COLLEGE
BULLETIN

One Hundred Eighty-sixth Edition
1773-1959



ANNUAL CATALOGUE ISSUE
1959-1960

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No. 4



DICKINSON, an illustrated booklet describing life at Dickinson College, is available on request from the Dean of Admission.

DICKINSON COLLEGE BULLETIN

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College Calendar

1959-1960

- FALL SEMESTER OPENS Monday, September 14, 1959
- REGISTRATION Monday, September 14, 1959 at 9: 00 A. M.
- CLASSES BEGIN Thursday, September 17, 1959 at 8: 00 A. M.
- COLLEGE CONVOCATION Thursday, September 17, 1959 at 11: 00 A. M.
- MATRICULATION SERVICE Sunday, September 20, 1959
- THANKSGIVING RECESS Wednesday, November 25, 1959 at 12: 00 Noon
to Monday, November 30, 1959 at 8: 00 A. M.
- CHRISTMAS RECESS Friday, December 18, 1959 at 12: 00 Noon
to Monday, January 4, 1960 at 8: 00 A. M.
- CLASSES CLOSE Saturday, January 16, 1960 at 12: 00 Noon
- EXAMINATIONS BEGIN Monday, January 18, 1960 at 8: 00 A. M.
- EXAMINATIONS CLOSE Thursday, January 28, 1960 at 5: 00 P. M.
- FALL SEMESTER ENDS Saturday, January 30, 1960
- SPRING SEMESTER OPENS Monday, February 1, 1960 at 8: 00 A. M.
- SPRING RECESS Saturday, March 26, 1960 at 12: 00 Noon
to Monday, April 4, 1960 at 8: 00 A. M.
- FOUNDERS' DAY Thursday, April 28, 1960
- CLASSES CLOSE Saturday, May 21, 1960 at 12: 00 Noon
- FINAL EXAMINATIONS BEGIN ... Monday, May 23, 1960 at 8: 00 A. M.
- EXAMINATIONS CLOSE Wednesday, June 1, 1960 at 5: 00 P. M.
- COMMENCEMENT Sunday, June 5, 1960
- FALL SEMESTER OPENS Monday, September 12, 1960

Accreditation and Memberships

Dickinson, a college of arts and sciences, is accorded the highest recognition granted by accrediting agencies. Its curriculum and physical plant are accredited by:

THE MIDDLE STATES ASSOCIATION OF COLLEGES
AND SECONDARY SCHOOLS

THE UNIVERSITY SENATE OF THE METHODIST CHURCH

THE PENNSYLVANIA DEPARTMENT OF PUBLIC INSTRUCTION

THE UNIVERSITY OF THE STATE OF NEW YORK

THE AMERICAN CHEMICAL SOCIETY

The College is a member of leading educational organizations including:

THE AMERICAN COUNCIL ON EDUCATION

THE ASSOCIATION OF AMERICAN COLLEGES

THE PENNSYLVANIA ASSOCIATION OF COLLEGES AND UNIVERSITIES

THE COLLEGE ENTRANCE EXAMINATION BOARD

THE NATIONAL COMMISSION ON ACCREDITING

THE FOUNDATION FOR INDEPENDENT COLLEGES OF PENNSYLVANIA

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I

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GEORGE SHUMAN, JR., Ph.B., LL.D.	<i>Ex Officio</i>

First Elected

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1951	*JOHN C. ARNOLD, LL.D.	Clearfield
1943	JAMES T. BUCKLEY, D. Eng.	Philadelphia
1955	HERBERT M. GOULD, LL.B., D.B.A.	Detroit, Mich.
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1958	EDWARD C. RAFFENSPERGER, Sc.B., M.D.	Harrisburg
1957	ALEXANDER K. SMITH, A.B., D.D.	Norristown
1950	GLENN E. TODD, Ph.B.	Carlisle
1952	ROBERT E. WOODSIDE, A.B., LL.D.	Millersburg

* Deceased November 9, 1958.

Term Expires 1960

- 1950 C. SCOTT ALTHOUSE, Sc.D. Reading
 1944 FRED P. CORSON, D.D., LL.D., J.U.D. Philadelphia
 1945 WILLIAM L. ESHELMAN, Ph.B. Mohnton
 1954 MARY SHARP FOUCHT Chicago, Ill.
 1954 LEWIS F. GAYNER, A.B., M.B.A. Wheeling, W. Va.
 1954 F. LAMONT HENNINGER, A.M., B.D., Th.D. Harrisburg
 1952 JOHN M. KLEPSE, A.M., LL.B. Hollidaysburg
 (ALUMNI TRUSTEE)
 1945 SIDNEY D. KLINE, A.M., LL.B., LL.D. Reading
 1958 HARRY W. LEE, LL.B. Reading
 1953 HENRY LOGAN, A.M., LL.B. Brooklyn, N. Y.
 1950 DAVID M. WALLACE, A.M., LL.B. Harrisburg

Term Expires 1961

- 1952 CARL C. CHAMBERS, Sc.D. Media
 1953 JOEL CLASTER, D.C.S. Philadelphia
 1933 SUMNER M. DRAYER Baltimore, Md.
 1932 CHARLES C. DUKE Baltimore, Md.
 1957 HELEN DOUGLASS GALLAGHER, A.B. Short Hills, N. J.
 (ALUMNI TRUSTEE)
 1949 PAUL L. HUTCHISON, A.M., LL.B. Camp Hill
 1958 EDWARD G. LATCH, A.B., B.D., A.M., D.D. Washington, D.C.
 1946 FRANK E. MASLAND, JR., HH.D. Carlisle
 1930 S. WALTER STAUFFER, Ph.B. York
 1948 ROBERT A. W Aidner, A.B., LL.B. Baltimore, Md.

Term Expires 1962

- 1954 WHITFIELD J. BELL, JR., A.B., A.M., Ph.D. Philadelphia
(ALUMNI TRUSTEE)
- 1958 WILLIAM S. JENKINS, Ph.B., LL.B. Frostburg, Md.
- 1930 MERKEL LANDIS, A.M., LL.B. Carlisle
- 1954 W. GIBBS MCKENNEY, Ph.B., LL.B. Baltimore, Md.
- 1944 ROY W. MOHLER, M.D., Sc.D. Philadelphia
- 1953 G. BROMLEY OXNAM, S.T.D., LL.D. Washington, D. C.
- 1917 ROBERT F. RICH, Ph.B., LL.D. Woolrich
- 1943 KARL E. RICHARDS, Ph.B. Harrisburg
- 1946 *WILLIAM C. SAMPSON, A.M., Sc.D. Drexel Hill
- 1908 BOYD LEE SPAHR, A.M., LL.D., D.C.L. Philadelphia
- 1917 RUBY R. VALE, A.M., D.C.L., LL.D. Philadelphia
- 1948 SAMUEL W. WITWER, Ph.B., LL.D. Riverside, Ill.

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* Deceased October 21, 1958.

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DAVID B. EAVENSON	<i>Secretary</i>

Faculty

1958-1959

WILLIAM WILCOX EDEL, *The President of the College, Lemuel T. Appold Foundation*

A.B., Dickinson College, 1915; A.M., 1919; D.D., 1935; S.T.B., Boston University School of Theology, 1921; L.H.D., Keuka College, 1944; D.D., Hobart College, 1944; LL.D., Gettysburg College, 1949; LL.D., University of Pennsylvania, 1949; D.Hu., Boston University, 1950; J.U.D., Lebanon Valley College, 1956

GILBERT MALCOLM, *Vice President*

Ph.B., Dickinson College, 1915; A.M., 1917; LL.B., Dickinson School of Law, 1917; LL.D., Western Maryland College, 1948

FREDERIC WILLIAM NESS, *Academic Vice President and Dean of the College, Professor of English, Chairman of the Department of English*

A.B., Dickinson College, 1933; M.A., University of Cincinnati, 1935; Ph.D., Yale University, 1940

GEORGE SHUMAN, JR., *Financial Vice President and Treasurer, Development Officer*

Ph.B., Dickinson College, 1937; LL.D., Lycoming College, 1958

ALBERT WALKER, *Assistant to the President, Assistant Professor of Journalism, Director of Adult Education*

B.A., Baker University, 1942; M.S., Northwestern University, 1950

PROFESSORS EMERITI

*FORREST EUGENE CRAVER, *Professor Emeritus of Physical Education*

A.B., Dickinson College, 1899; A.M., 1901; Sc.D., 1947

LEWIS GUY ROHRBAUGH, *Thomas Bowman Professor Emeritus of Philosophy and Religion*

A.B., Dickinson College, 1907; A.M., 1910; B.D., Drew Theological Seminary, 1910; Ph.D., State University of Iowa, 1922

* Deceased October 18, 1958.

- MILTON WALKER EDDY, *Professor Emeritus of Biology*
B.S., Northwestern University, 1910; M.S., 1912; Ph.D., University
of Pennsylvania, 1929
- WELLINGTON AMOS PARLIN, *Professor Emeritus of Physics*
A.B., Simpson College, 1921; M.S., University of Iowa, 1922;
Ph.D., Johns Hopkins University, 1929
- JOSEPHINE BRUNYATE MEREDITH, *Professor Emerita of English*
A.B., Dickinson College, 1901; A.M., 1902; D.Lit., 1952
- MAY MORRIS, *Professor Emerita of Library Science*
Ph.B., Dickinson College, 1909; Graduate, Pratt Institute School of
Library Science, 1917
- JAMES CLAIR MCCULLOUGH, *Richard V. C. Watkins Professor Emeritus
of Education*
Ph.B., Dickinson College, 1909; A.M., 1912; Ph.D., New York Uni-
versity, 1939
- EDGAR MOORE FINCK, *Henry Ford Professor Emeritus of Education*
Litt.B., Princeton University, 1910; M.A., 1912; Ph.D., New York
University, 1930
- RICHARD HENRY MCANDREWS, *Associate Professor Emeritus of Physical
Education*

PROFESSORS

- HERBERT WING, JR., *Robert Coleman Professor of History; Chairman of
the Department of History*
A.B., Harvard College, 1909; A.M., University of Wisconsin, 1911;
Ph.D., 1915
- *ERNEST ALBERT VUILLEUMIER, *C. Scott Althouse Professor of Chemistry;
Secretary of the Faculty*
B.S., in Chemistry, University of Pennsylvania, 1914; Ph.D., Uni-
versity of Berne, Switzerland, 1918

* Deceased October 6, 1958.

JOHN CRAWFORD MILTON GRIMM, *Professor of Romance Languages; Chairman of the Department of Modern Languages and Literatures; Marshal of the College*

B.A., Ohio State University, 1911; M.A., 1912; Ph.D., University of Pennsylvania, 1916

HORACE ELTON ROGERS, *Alfred Victor duPont Professor of Analytical Chemistry; Chairman of the Department of Chemistry*

B.S., Dickinson College, 1924; M.S., Lafayette College, 1925; Ph.D., Princeton University, 1930

*WILLIAM DRUM GOULD, *George Henry and Bertha Curry Ketterer Professor of Philosophy and Religion; Chairman of the Department of Philosophy and Religion*

A.B., Wesleyan University, 1919; B.D., Garrett Biblical Institute, 1922; Ph.D., Boston University, 1929

**WILLIAM LONSDALE TAYLER, *Robert Blaine Weaver Professor of Political Science; Chairman of the Department of Political Science; Assistant Marshal*

B.A., University of Texas, 1927; M.A., American University, 1928; M.A., Columbia University, 1929; Ph.D., 1935

CHARLES DAVID KEPNER, *Professor of Sociology; Chairman of the Department of Sociology*

B.A., Williams College, 1916; A.M., Harvard University, 1917; S.T.B., Andover Theological Seminary, 1922; Ph.D., Columbia University, 1936

ELMER CHARLES HERBER, *Professor of Biology; Chairman of the Department of Biology*

A.B., Ursinus College, 1925; A.M., University of Pennsylvania, 1929; Sc.D., Johns Hopkins University, 1941

MARY BUCKLEY TAINTOR, *Professor of Romance Languages*

A.B., Ripon College, 1911; A.M., Leland Stanford Jr. University, 1918

* Refresher-Year Leave 1958-1959.

** Leave of Absence, U. S. State Department, 1959.

FRIEDRICH SANDELS, *Professor of German; Acting Chairman of the Department of Classics*

Ph.D., University of Giessen, Germany, 1912

*WILLIAM SLOANE, *Martha Porter Sellers Professor of English*

A.B., Hamilton College, 1932; M.A., Columbia University, 1933;

Ph.D., 1947

FREDERIC WILLIAM NESS (*Academic Vice President and Dean*)

*RALPH SCHECTER, *Thomas Beaver Professor of English Literature*

A.B., University of Illinois, 1916

BENJAMIN DAVID JAMES, *Dean of Admission and Dean of the Freshman Class; Richard V. C. Watkins Professor of Education and Psychology; Chairman of the Department of Education and Psychology*

A.B., Dickinson College, 1934; M.A., Bucknell University, 1936

CHARLES COLEMAN SELLERS, *Librarian with Rank of Professor; Historian of the College*

B.A., Haverford College, 1925; M.A., Harvard University, 1926;

Litt.D., Temple University, 1957

ARTHUR MAX PRINZ, *Professor of Economics*

Ph.D., University of Berlin, 1923

**JAMES STUART PRENTICE, *Visiting Professor of Economics*

B.A., Queen's University, Canada, 1920; M.A., 1927

MILTON EMBICK FLOWER, *Professor of Political Science; Acting Chairman of the Department of Political Science*

A.B., Dickinson College, 1931; A.M., Columbia University, 1938;

Ph.D., 1946

STOYAN GAVRILOVIC, *Professor of Political Science*

Diploma, Faculty of Law, University of Belgrade, 1923; D. Juris,

International Law, Private and Public, University of Geneva, 1931

* Refresher-Year Leave 1958-1959.

** Spring Semester 1959

- *MONTAGU FRANK MODDER, *Visiting Professor of English*
B.A., Royal College, Colombo, Ceylon, 1912; B.A., Springfield College, 1916; A.M., Clark University, 1920; Ph.D., University of Michigan, 1935
- GEORGE ELLIS DESHON, *Professor of Military Science and Tactics*
B.A., University of California, 1937; M.B.A., University of Texas, 1953; Lt. Colonel, Infantry, U. S. Army
- HENRY L. YEAGLEY, *Professor of Physics, Chairman of the Department of Physics*
B.S., Pennsylvania State University, 1925; M.S., 1927; Ph.D., 1934
- DONALD TURNER GRAFFAM, *Professor of Education and Psychology*
A.B., University of Redlands, 1926; A.M., University of Southern California, 1933; Ed.D., 1949
- HERBERT ELLIS NEWMAN, *Professor of Economics, Chairman of the Department of Economics*
A.B., Birmingham-Southern College, 1936; A.M., University of Virginia, 1938; Ph.D., 1940
- JOSEPH SCHIFFMAN, *Professor of English; Chairman of the Department of English*
B.A., Long Island University, 1937; M.A., Columbia University, 1947; Ph.D., New York University, 1951
- **HOWARD CHARLES LONG, *Professor of Physics*
A.B., Northwestern University, 1941; Ph.D., Ohio State University, 1948

ASSOCIATE PROFESSORS

- ***HAROLD WILDIE WEIGEL, *Associate Professor of German*
A.B., Dickinson College, 1930; M.A., Pennsylvania State College, 1931; Ph.D., 1940

* Deceased May 31, 1958.

** Effective July 1, 1959.

*** Leave of Absence, Fulbright Exchange, 1958-1959.

- AMOS BENJAMIN HORLACHER, *Associate Professor of English*
A.B., Wesleyan University, 1926; S.T.B., Union Theological Seminary, 1929; D.D., Wesleyan University, 1943; M.A., Columbia University, 1952; Ed.D., 1957
- ROGER EASTMAN NELSON, *Associate Professor of Mathematics; Acting Chairman of the Department of Mathematics; Secretary of the Faculty*
B.S., United States Naval Academy, 1922; M.A., Dartmouth College, 1946
- JOHN CHRISTIAN PFLAUM, *Associate Professor of History*
B.S., University of Pennsylvania, 1925; M.A., 1929
- *CHARLES FLINT KELLOGG, *Associate Professor of History; Assistant Marshal*
A.B., Bard College of Columbia University, 1931; M.A., Harvard University, 1933
- FRANCIS WAYLAND WARLOW, *Associate Professor of English*
A.B., Johns Hopkins University, 1931; M.A., University of Pennsylvania, 1946
- WILLIAM ROBERT BOWDEN, *Associate Professor of English, Assistant Marshal*
A.B., Haverford College, 1935; A.M., Duke University, 1937; Ph.D., Yale University, 1948
- CAROLINE HEATH KENNEDY, *Associate Professor of Modern Languages*
A.B., Birmingham-Southern College, 1926; M.A., Alabama University, 1930; Docteur D'Universite, Universite Laval, 1942
- WILLIAM WRIGHT KIRK, *Associate Professor of Modern Languages; Assistant Marshal*
A.B., University of Delaware, 1930; M.A., Middlebury French School, 1935; Ph.D., University of Illinois, 1955
- GEORGE WILLIAM ZIEGLER, JR., *Associate Professor of Chemistry*
B.S., Monmouth College, 1939; Ph.D., Ohio State University, 1950

* Leave of absence, Spring Semester, 1958-1959.

- DAVID IVAN GLEIM, *Associate Professor of Chemistry, Mace Bearer*
B.S., Franklin and Marshall College, 1918; M.A., Columbia University, 1920
- FERDINANDO DANTE MAURINO, *Associate Professor of Romance and Classical Languages*
A.B., City College of New York, 1939; A.M., Columbia University, 1941; Ph.D., 1948
- MARGARET MCALPIN RAMOS, *Associate Professor of Modern Languages*
A.B., Syracuse University, 1931; M.A., University of Tennessee, 1948
- WINTHROP CECIL DIFFORD, *Associate Professor of Geology; Chairman of the Department of Geology*
B.S., Mt. Union College, 1943; M.S., West Virginia University, 1947; Ph.D., Syracuse University, 1954
- *LUCY HOLT DONEY, *Catalogue Librarian with Rank of Associate Professor*
B.S., University of Washington, 1922; M.L.S., Carnegie Institute of Technology, Library School, 1954
- JAMES STEWART LESLIE, *Director of the Danforth Experiment with Rank of Visiting Associate Professor*
A.B., DePauw University, 1946; S.T.B., Boston University School of Theology, 1949; Ph.D., Boston University Graduate School, 1955
- ALAN COUTTS, *Dean of Men with Rank of Associate Professor*
B.S., Oregon State College, 1931; M.A., Northwestern University, 1936
- WALTER MCKINLEY MILLER, *Associate Professor of Mathematics*
Ph.B., Lafayette College, 1918; M.A., Pennsylvania State University, 1922; Ph.D., University of Illinois, 1927
- ASA W. CLIMENHAGA, *Associate Professor of Education*
A.B., Taylor University, 1919; M.A., Wittenberg College, 1940; Ed.D., Syracuse University, 1945

* Deceased July 3, 1958.

- WARREN JAMES GATES, *Associate Professor of History*
 A.B., Duke University, 1941; A.M., University of Pennsylvania,
 1947; Ph.D., 1951
- CLIFTON ELVANS MAYFIELD, *Associate Professor of Psychology*
 B.S., Lafayette College, 1940; M.S., Purdue University, 1947; Ph.D.,
 University of Pennsylvania, 1957
- WILLIAM HOWARD BENSON, *Registrar, Associate Professor of Mathematics*
 B.S., U. S. Naval Academy, 1925; Graduate, U. S. Navy Postgraduate
 School, 1934
- JOHN WESLEY DIXON, JR., *Associate Professor of Art, Chairman of the
 Department of Art*
 B.A., Emory and Henry College, 1941; Ph.D., University of Chicago,
 1953
- M. BENTON NAFF, *Associate Professor of Chemistry*
 B.S., University of Kentucky, 1941; M.S., 1946; Ph.D., Oregon
 State College, 1950
- IRVING YAVERBAUM, *Lecturer in Taxation and Accounting*
 B.C.S., New York University, 1928; C.P.A., Pennsylvania, 1933;
 New York, 1950
- J. ARTLEY LEATHERMAN, *Lecturer in Practical Theology*
 A.B., Evansville College, 1940; S.T.B., Boston University School of
 Theology, 1943

ASSISTANT PROFESSORS

- *JED HARBOTTLE TAYLOR, *Catalogue Librarian with Rank of Assistant
 Professor*
 B.S., Syracuse University, 1924; B.S. in L.S., Columbia University,
 1931; M.A., Boston University, 1951
- **DONALD WILLIAM FLAHERTY, *Assistant Professor of Political Science*
 A.B., Syracuse University, 1943; Ph.D., 1954

* Leave of Absence 1959.

** Leave of Absence 1958-1959.

HEBER REECE HARPER, *Assistant Professor of Political Science, Resident of Morgan Hall*

B.S., Haverford College, 1942; M.A., University of Michigan, 1948

RICHARD MAE SIA, *Assistant Professor of Physics*

B.S., Northwestern University, 1928; M.S., University of Chicago, 1932

LEE ANN BONNE WAGNER, *Assistant Professor of Physical Education*

B.S., Pennsylvania State College, 1948

GEORGE H. FROGEN, *Assistant Professor of Classical Languages*

B.A., University of Minnesota, 1931; M.A., 1944; Ph.D., 1955

DAVID BALBACH EAVENSON, *Assistant Professor of Physical Education, Chairman of the Department of Physical Education, Director of Athletics*

B.S., Bucknell University, 1954

ARTHUR CONOVER FLANDREAU, JR., *Reference Librarian with Rank of Assistant Professor*

A.B., Dickinson College, 1950; M.A., University of Chicago, 1954

ALBERT WALKER (*Assistant to the President*)

DANIEL JAMES McDONALD, *Assistant Professor of Biology*

B.S., Siena College, 1950; M.A., Columbia University, 1952; Ph.D., 1955

JOHN D. SCANDLING, *Assistant Professor of Military Science and Tactics*

B.S., U. S. Military Academy, 1950; Captain, Infantry, U. S. Army

ROBERT ALAN MCGILL, *Assistant Professor of English*

A.B., Dickinson College, 1949; M.A., University of Pennsylvania, 1949; Ph.D., 1959

VICTORIA KATHRYN HANN, *Dean of Women with Rank of Assistant Professor*

A.B., Dickinson College, 1950; M.A., Columbia University, 1951

JOHN ANDERSON MAGUIRE, *Assistant Professor of Romance Languages*
M.A., Catholic University, Washington, 1934; Ph.D., Johns Hopkins
University, 1942

RAYMOND JAMES WELLS, *Assistant Professor of Philosophy and Religion;*
Acting Chairman of the Department of Philosophy and Religion
A.B., Seattle Pacific College, 1946; S.T.B., The Biblical Seminary
in New York, 1949; S.T.M., 1950; Ph.D., University of Edinburgh,
1957

LLOYD ULTAN, *Assistant Professor of Music; Chairman of the Depart-*
ment of Music
B.S., New York University, 1951; M.A., Columbia University, 1952;
Ph.D., State University of Iowa, 1956

HENRY JAMES YOUNG, *Assistant Professor of History and Curator of*
Dickinsoniana
A.B., Franklin and Marshall College, 1932; Ph.D., Johns Hopkins
University, 1955

HERBERT FERGUS THOMSON, JR., *Assistant Professor of Economics; Resi-*
dent of Conway Hall
A.B., Princeton University, 1939; B.Th., Princeton Theological
Seminary, 1942; S.T.M., Union Theological Seminary, 1943; Ph.D.,
Columbia University, 1952; M.A., University of Colorado, 1957

WILLIAM HOOD WISHMEYER, *Assistant Professor of English*
B.A., Johns Hopkins University, 1948; M.A., 1949; Ph.D., Univer-
sity of Pennsylvania, 1957

ROBERT EDWARD OGREN, *Assistant Professor of Biology*
A.B., Wheaton College, 1947; M.S., Northwestern University, 1948;
Ph.D., University of Illinois, 1953

DONALD RECK SEIBERT, *Assistant Professor of Physical Education*
B.S., George Washington University, 1943; M.A., Columbia Uni-
versity, 1950

- HAL MARION WELLS, *Assistant Professor of Psychology*
B.A., State University of Iowa, 1941; S.T.B., Berkeley Divinity School, 1945; M.A., Columbia University, 1950
- ALBERT LAWRENCE RUSSELL, JR., *Assistant Professor of Military Science and Tactics*
B.S., Temple University, 1951; Captain, Armor, U. S. Army
- DONALD CARL MOSER, *Assistant Professor of Psychology*
A.B., Columbia College, 1952; A.M., Columbia University, 1953; Ph.D., 1958
- EDWARD ROTHSTEIN, *Assistant Professor of Sociology*
B.S., Teachers College of Connecticut, 1938; M.Ed., University of New Hampshire, 1940
- JOHN DRAKE PUSEY, *Artist-in-Residence, with Rank of Assistant Professor*
Chicago Art Institute, Yale University School of Fine Arts, Independent Study in France
- JOSEPH GORDON DUCHARME, *Assistant Professor of Physical Education*
B.S. in Physical Education, Ithaca College, 1948; M.A. in Physical Education, New York University, 1951
- EDGAR BRADLEY OLDENBURG, *Adjunct Assistant Professor of Chemistry*
B.S., University of Michigan, 1950; M.S., Wayne University, 1955
- JOHN WILLIAM ALLEN, *Adjunct Assistant Professor of Physics*
B.M.E., Cornell University, 1948
- HOMER ERNST HENSCHEN, *Adjunct Assistant Professor of Physics*
B.E.E., Ohio State University, 1951
- DONALD PAUL LERCH, *Adjunct Assistant Professor of Physics*
B.S. in R.E., Tri-State College, 1949

- KATHARINE A. BONNEY, *Assistant Professor of Philosophy*
 A.B., Connecticut College for Women, 1933; M.A., Teachers College,
 1937; B.D., Union Theological Seminary, 1944; Ph.D., Boston
 University School of Theology, 1958
- SAMUEL GRAY SCOTT, *Assistant Professor of Psychology*
 A.B., Duke University, 1952; M.S., North Carolina State College,
 1954
- NANCY LEE BEATY, *Assistant Professor of English, Resident of Mathews
 House*
 A.B., Wellesley College, 1943; Ph.D., Yale University, 1956
- ALEXANDER P. STONE, *Assistant Professor of Physics*
 B.S.E.E., Columbia School of Engineering, 1952; M.S.E.E., Newark
 College of Engineering, 1956
- ANNA MAGDALENA STARK, *Visiting Assistant Professor of German*
 Ph.D., University of Munich, 1937

INSTRUCTORS

- *J. PATRICK PATTINSON, *Instructor in English*
 B.A., Cambridge University, England, 1947; M.A., 1949
- PAUL ALAN LAWRENCE SMITH, *Instructor in Political Science*
 B.S., University of Wisconsin, 1950; M.A., Princeton University,
 1953
- JAMES WILLIAM CARSON, *Instructor in History*
 B.S. in Education, Miami University, 1949; M.A., 1951
- DAVID FRANTZ BRUBAKER, *Instructor in Drama*
 A.B., Franklin and Marshall College, 1948
- ANDREW CRAIG HOUSTON, *Instructor in Economics*
 A.B., Pennsylvania State University, 1951; Graduate, School for
 English Speaking Students, University of Stockholm, 1952

* Leave of absence 1958-1959.

- BARBARA BROWN McDONALD, *Instructor in Biology*
B.S., Simmons College, 1948; M.A., Columbia University, 1955;
Ph.D., 1957
- ERNEST KUHINKA, *Instructor in Sociology, Resident of East College*
B.A., University of Debrecen, Hungary, 1945; M.A., University of
Utrecht, Holland, 1950; Ph.D., 1952
- CHARLES ROBERT REAM, *Instructor in Physical Education*
B.S., University of Pittsburgh, 1948; M.Ed., 1953
- THOMAS ANDREW ISRAEL, *Instructor in Political Science*
B.S., Northwestern University, 1939; M.A., University of Chicago,
1948; Ph.D., University of Illinois, 1959
- WILLIAM W. VIRGIN, JR., *Instructor in Geology and Chemistry*
B.A., University of New Hampshire, 1952; M.S., Lehigh University,
1955
- ELIZABETH WARREN CASPER, *Instructor in Sociology*
B.A., Bryn Mawr College, 1955
- ROBERT BURBANK WILEY, *Instructor in Philosophy*
B.S. in E.E., University of Manitoba, 1948; M.A., University of
Toronto, 1954
- ALFRED NEWLON HARTSHORN, *Instructor in English*
A.B., University of Rochester, 1932; A.M., 1957
- KATHLEEN MACKENZIE SWAIM, *Instructor in English*
B.A., Gettysburg College, 1957; M.A., Pennsylvania State University,
1958
- ROBERT NATHAN HALE ANDREWS, *Instructor in English*
A.B., Harvard College, 1950; M.A., Columbia University, 1957
- CONRAD ANDREW KAHLER, *Assistant Cataloguer with Rank of Instructor*
B.A., Southwestern College, 1949; M.S., Kansas State College, 1951;
M.L.S., Rutgers University, 1958

JACK MARIUS JARRETT, *Instructor in Music*

B.A., University of Florida, 1956; M.A., Eastman School of Music,
University of Rochester, 1957

CLAUDE MARIE LOUISE BARANGER, *Instructor in French*

Licence d'Anglais, La Faculte des Lettres, The University of Paris,
1957

CLAIRE CLIFFORD SEABURY, *Instructor in Mathematics*

B.S., U. S. Naval Academy, 1925; C.E., Rensselaer Polytechnic
Institute, 1928; M.C.E., 1929

BELLE S. KAUFMAN, *Instructor in Mathematics*

B.S., University of Pittsburgh, 1940

ANNA S. NAFF, *Instructor in Chemistry, Science Librarian*

B.S., University of Kentucky, 1944; M.S., 1946; M.A. in L.S.,
University of Michigan, 1953

JACQUELINE SMITH OLIN, *Instructor in Chemistry*

B.S., Dickinson College, 1954; M.A., Harvard University, 1956

FRANK A. MILLER, *Instructor in History*

B.A., Swarthmore College, 1949

ASSISTANTS

JANE FARR MAYFIELD, *Assistant in Psychology*

A.B., Bucknell University, 1948; M.A., University of Pennsylvania,
1954

THADDEUS FRANCIS KENT, *Assistant Instructor, Reserve Officer Training
Corps Unit, Master Sergeant, U. S. Army*

A.B., University of Illinois, 1937

HOWARD MORRISON KISER, *Assistant Instructor, Reserve Officer Training
Corps Unit, Sergeant First Class, U. S. Army*

ROBERT JOHN BEIERSCHMITT, *Assistant Instructor, Reserve Officer Train-
ing Corps Unit, Master Sergeant, U. S. Army*

JOHN A. STEWART, *Assistant Instructor, Reserve Officer Training Corps Unit, Sergeant, U. S. Army*
B.S. in C.E., Cooper Union, 1933

DAISY WILSON STRAYER, *Assistant in Physical Education*
B.S. in Physical Education, West Chester State Teachers College, 1940

JAMES H. PATTON, JR., *Assistant Instructor, Reserve Officer Training Corps Unit, Sergeant, U. S. Army*

EDWARD FITZPATRICK JONES, III, *Admission Counselor*
Dickinson College

* * *

LIAISON GROUP

CARLISLE AREA JOINT SCHOOL SYSTEM

DAVID L. SWARTZ, M.ED., *Superintendent of Schools*

MARK N. BURKHART, M.SC., *Principal, Carlisle Senior High School*

HAROLD E. ECKERT, M.ED., *Principal, Carlisle Junior High School*

*

CO-OPERATING TEACHERS IN STUDENT TEACHING

J. ANTHONY, M.ED.

J. R. HOUSER, B.A.

J. G. BOWERS, B.A.

M. M. McADOO, B.A.

A. W. BOLZE, M.A.

C. NOLEN, M.A.

P. J. BOZARTH, A.B.

O. SCOTT, B.A.

W. F. COOLIDGE, M.A.

M. SHEARER, B.S.

R. S. GABLER, M.A.

M. N. SHERK, A.B.

J. K. GOTWALD, B.MUS.

M. H. SUNDERLAND, B.S.

M. A. GROOME, A.B.

A. M. THOMAS, B.A.

I. R. HOOVER, M.A.

B. YAGGY, JR., A.B.

OFFICERS OF ADMINISTRATION

WILLIAM W. EDEL, J.U.D.	<i>The President of the College</i>
GILBERT MALCOLM, LL.D.	<i>Vice President</i>
FREDERIC W. NESS, PH.D.	<i>Academic Vice President and Dean</i>
GEORGE SHUMAN, JR., LL.D.	<i>Financial Vice President and Treasurer</i>
ALBERT WALKER, M.S.	<i>Assistant to the President</i>
PAULINE ROBINSON LAY	<i>Secretary to the President</i>
BENJAMIN D. JAMES, M.A.	<i>Dean of Admission, Dean of the Freshman Class</i>
WILLIAM H. BENSON, B.S.	<i>Registrar</i>
ALAN COUTTS, M.A.	<i>Dean of Men</i>
VICTORIA K. HANN, M.A.	<i>Dean of Women</i>
CHARLES C. SELLERS, LITT.D.	<i>Librarian, Historian</i>
HENRY JAMES YOUNG, PH.D.	<i>Curator of Dickinsoniana</i>
JED H. TAYLOR, M.A.	<i>Catalogue Librarian</i>
ARTHUR C. FLANDREAU, JR., M.A.	<i>Reference Librarian</i>
CONRAD A. KAHLER, M.L.S.	<i>Assistant Cataloguer</i>
JOHN C. M. GRIMM, PH.D.	<i>Marshal</i>
DAVID I. GLEIM, M.A.	<i>Mace Bearer</i>
WILLIAM R. BOWDEN, PH.D.	<i>Assistant Marshal</i>
W. LONSDALE TAYLER, PH.D.	<i>Assistant Marshal</i>
C. FLINT KELLOGG, M.A.	<i>Assistant Marshal</i>
W. WRIGHT KIRK, PH.D.	<i>Assistant Marshal</i>
ROGER E. NELSON, M.A.	<i>Secretary of the Faculty</i>

DAVID B. EAVENSON, B.S.	<i>Director of Athletics</i>
ALVA A. FRANCKLE	<i>Superintendent of Grounds and Buildings</i>
CARL J. ADAMS	<i>Assistant Treasurer</i>
GEORGE A. BOBLETZ	<i>Assistant Treasurer and Manager of Bookstore</i>
ROGER H. STECK, PH.B.	<i>News Services</i>
EDWARD F. JONES, III	<i>Admission Counselor</i>
EDWARD S. KRONENBERG, JR., M.D.	<i>College Physician for Women</i>
FREDERICK S. WILSON, M.D.	<i>College Physician for Men</i>
ONETA M. FINK, R.N.	<i>Director of the Health Center</i>
FRED N. ROE	<i>Placement Officer</i>
HEBER R. HARPER, M.A.	<i>Resident, Morgan Hall</i>
ERNEST KUHINKA, PH.D.	<i>Resident, East College</i>
HERBERT F. THOMSON, JR., PH.D.	<i>Resident, Conway Hall</i>
ANN STOVER	<i>House Director, Biddle House</i>
NANCY LEE BEATY, Ph.D.	<i>Resident, Mathews House</i>
EMMA L. GRUBB	<i>House Director, Metzger Hall</i>
ELSIE R. HAGERLING	<i>House Director, Gibbs House</i>
KATHARINE C. LONGLAND	<i>House Director, Drayer Hall</i>
ELEANOR H. SMITH	<i>Assistant House Director, Drayer Hall</i>
JESSIE SCOTT	<i>House Director, McIntire House</i>
REBA MATHIS	<i>Assistant to House Directors</i>
CHARLOTTE PRETTYMAN	<i>Assistant to House Directors</i>
DOROTHY R. WEIGEL, B.S.	<i>Library Assistant</i>
NELL BARR	<i>Library Assistant</i>
EVELYN A. COHICK	<i>Circulation Desk, Library</i>

COMMITTEES OF THE FACULTY

EFFECTIVE JANUARY 1, 1959

The President and Academic Vice President, *ex officio* members of all Committees, except No. 13.

1. POLICY

President Edel, *Chairman*; Dean Ness, Professors Grimm, Prinz, Graffam, Kirk, Benson, Dixon and Moser, and Mr. Carson

2. CURRICULUM

1959—Professors Wing, Sellers and Ramos

1960—Professors Dixon, Warlow and Mayfield

1961—Professor James, *Chairman*; Professors Herber and Schiffman
The Registrar

3. ACADEMIC STANDARDS

1959—Professor Difford, *Chairman*; and Mr. Houston

1960—Professors Rogers and R. Wells

4. RELIGIOUS AFFAIRS

1959—Professors Dixon, McGill and Sia

1960—Professors Kirk, Leatherman and Bonney

1961—Professor R. Wells, *Chairman*; Professors Leslie and Frogen

5. CULTURAL AFFAIRS

1959—Professor Flower, *Chairman*; Professor Ultan

1960—Professors Kellogg and Ramos

1961—Professors Newman and H. Wells

6. SOCIAL AFFAIRS

1959—Professors Kepner, Gates and Eavenson

1960—Professors Herber and Harper; Mr. Brubaker and Dr. B. McDonald

1961—Professors Deshon, Wagner, Maguire and Rothstein
The Dean of Women, *Chairman*; the Dean of Men

7. PUBLIC EVENTS

1959—Professors Kirk, Walker and Seibert

1960—Professors Maurino, Scandling, Miller and Mr. Houston

1961—Professors Pusey, D. McDonald and DuCharme

The Marshal of the College, *Chairman*; the Assistant Marshals and the Mace Bearer

8. LIBRARY

1959—Professor Pflaum, Professor Kennedy, *Chairman*

1960—Professors Nelson, Naff and Mr. Carson

1961—Mr. Ream and Mr. Virgin

9. EXCHANGE STUDENTS

1959—Mr. Smith and Mr. Kuhinka

1960—Professors Gavrilovic, Ogren and H. Wells

1961—Professor Flower, *Chairman*; Professor Bowden

10. SCHOLARSHIPS AND STUDENT AID

1959—Professor Young

1960—Professor Kellogg

1961—Professor Flandreau

The Vice Presidents, the Academic Vice President, *Chairman*; and the Dean of Admission

11. ADMISSIONS

1959—Professor Grimm

1960—Professor Gleim

1961—Professor Yeagley

The Dean of Admission, *Chairman*; the Deans of Men and Women, the Registrar, and the Assistant Dean of Admission

12. GRADUATE STUDY

1959—Professors Tayler and Wishmeyer

1960—Professor Wing, *Chairman*; Professor Thomson

1961—Professors Horlacher and Flandreau

13. ACADEMIC FREEDOM AND TENURE

1959—Professors Nelson and Bowden

1960—Professors Kellogg and Warlow

1961—Professors Tayler, Horlacher and Gates

REPRESENTATIVES ON STUDENT-FACULTY JUDICIAL COUNCIL

1959—Professors Pflaum, Dixon and Beaty

The Deans of Men and Women, non-voting

SPECIAL STAFF AND CONCERTS

FEBRUARY 2, 1958 — JANUARY 31, 1959

- THOMAS E. JONES, Ph.D., LL.D., *Clergyman*
Representative Preachers Series, February 4
- DEPAUR OPERA GALA, *Chorus with Orchestra* Concert, February 4
- ELMER G. HOMRIGHAUSEN, Th.D., *Clergyman*
Representative Preachers Series, February 6
- RALPH L. KETCHAM, D.S.S., *Historian*
Boyd Lee Spahr Lecture, February 7
- ROBERT E. WOODSIDE, LL.D., *Judge of the Superior Court of Pennsylvania*
Omicron Delta Kappa Address, February 11
- CARL C. CHAMBERS, D.Sc., *Vice President for Engineering Affairs, University of Pennsylvania* James Henry Morgan Lecture, February 18
- HANSON BALDWIN, *Military Editor, N. Y. Times* Lecture, February 19
- EDGAR M. FINCK, Ph.D., *Professor, Dickinson College*
Chairing Convocation Address, February 20
- JOHN A. KROUT, Ph.D., *Educator, Phi Beta Kappa* Address, February 27
- BRADFORD S. ABERNETHY, B.D., *Clergyman*
Representative Preachers Series, March 4
- NELS F. S. FERRE, Ph.D., *Clergyman*
Representative Preachers Series, March 6
- VIRTUOSI DI ROMA, *Orchestra* Concert, March 12
- MAX S. JOHNSON, *Major General, U.S.A., Commandant of the Army War College* Assembly Address, March 12
- A. MERRILL ALLYN, L.H.D., *Foundation for Independent Colleges*
Convocation Address, March 18
- PAUL D. LEEDY, Ph.D., *New York University*
James Henry Morgan Lecture, March 20
- ANGNA ENTERS, *Pantomimist* Pantomime, March 25
- WILLIAM W. EDEL, L.H.D., J.U.D., *President of Dickinson College*
Mary Dickinson Day Address, March 25

- ALDEN D. EMORY, Sc.D., *American Chemical Society*
Priestley Day Celebration, March 27
- JAMES R. KILLIAN, JR., Sc.D., *Special Assistant to the President of the United States for Science and Technology*
Priestley Day Celebration, March 27
- GEORGE B. KISTIAKOWSKY, Ph.D., *Harvard University*
Priestley Day Celebration, March 27
- MRS. JAMES D. WYKER, D.D., *United Christian Missionary Society*
Representative Preachers Series, April 1
- GEORGE ABBE, *American Novelist* Assembly Address, April 10
- ELIZABETH BOWEN, *English Novelist* Convocation Address, April 15
- JOHN SCOTT, *Editor and Lecturer* Assembly Address, April 22
- JOHN WESLEY LORD, D.D., LL.D., *Bishop of the Methodist Church*
Dedication of Dickinson Chapel, April 24
- RICHARD DYER-BENNETT, *Folksinger* Concert, April 24
- JOHN W. MCCONNELL, Ph.D., *Dean of the Graduate School, Cornell University* James Henry Morgan Lecture, April 29
- FREDERIC W. NESS, Ph.D., *Academic Vice President and Dean, Dickinson College*
James Henry Morgan Lecture, Founders Day, May 1
- DICKINSON COLLEGE CHOIR AND BAND Concert, May 2
- EDGAR A. HENRY, D.D., *Clergyman* Baccalaureate Sermon, June 1
- ARTHUR B. LANGLEIE, *President, McCall Corporation*
Commencement Address, June 1
- FREDERICK D. BOLMAN, LL.D., *President of Franklin and Marshall College* Phi Beta Kappa Address, September 30
- GEORGE SPEAKE, Ph.D., *Lecturer* Assembly Address, October 9
- NATIONAL SYMPHONY ORCHESTRA Concert, October 9
- LAWRENCE L. LACOUR, Ph.D., *Clergyman*
Representative Preachers Series, October 14

- PIERRE E. BENIGNUS, D.D., *Clergyman* . . . Assembly Address, October 16
- JOHN G. HILTON, B.D., *Clergyman* Chapel Sermon, October 21
- JOHN CIARDI, *Poet* Dramatic Readings, October 21
- RALPH SCHECTER, A.B., *Professor, Dickinson College*
Chairing Convocation Address, October 23
- RALPH W. SOCKMAN, S.T.D., *Clergyman*
Representative Preachers Series, November 4
- EARLE SPICER, *Ballad Singer* Concert, November 11
- COLLEGE CHOIR Concert, November 11
- VINCENT PRICE, *Actor* Dramatic Readings, November 11
- SEYMOOR SHAPIRO, Ph.D., *Biologist* . . . Assembly Address, November 13
- H. TREVOR COLBOURN, Ph.D., *Historian*
Boyd Lee Spahr Lecture, November 14
- JOHN OLIVER NELSON, Ph.D. Litt. D., *Clergyman*
Religion in Life Week, November 17-19
- FREDERICK BROWN HARRIS, D.D., *Chaplain of United States Senate*
Chapel Address, November 20
- JOHN A. MORSELL, Ph.D., *Sociologist* . . . Chapel Address, November 25
- KENNETH R. ROSE, D.D., *Clergyman* . . . Chapel Address, December 2
- LOUISE OVERACKER, Ph.D., *Phi Beta Kappa Visiting Scholar*
Assembly Address, December 4
- LEE H. BRISTOL, JR., *Musician and Biographer*
Recognition of Bishop Robert Nelson Spencer,
Representative Preachers Series, December 9
- MILDRED DILLING, *Harpist* Concert, December 11
- HOWARD P. KELLETT, S.T.B., *Clergyman*
Representative Preachers Series, December 16
- PHILIPPE ENTREMONT, *Pianist* Concert, January 6
- STUART W. BRUCHEY, Ph.D., *Northwestern University*
Boyd Lee Spahr Lecture, January 9

II

*Traditions, Facilities,
Activities, Admissions, Fees,
Programs of Study, Degree Requirements*

Dickinson College

1773-1959

THE COLLEGE PURPOSE

THE purpose of Dickinson College is to help the student develop his resources of mind and character, know the world in which he lives, and achieve a sense of Christian values, the better to make a good life, a good home, and a good community.

To accomplish this aim, the College affords every student training toward mastery of written and spoken English, insight into the processes and personalities of history, basic comprehension of the continuing problems of our age, understanding of himself as a free individual and his responsibilities to his fellows, acquaintance with the methods of science and the composition of the physical universe, development of ethical and spiritual standards in every activity of his life, appreciation and enjoyment of the arts, and achievement of emotional stability and physical well-being. At the same time, recognizing the need for specialized training within its general purpose, the College organizes its curriculum to afford basic preparation for graduate study.

Knowing that its purpose will be realized only when these objectives are translated into creative action, the College undertakes to excite its students to this design.

HISTORICAL TRADITIONS

On March 3, 1773, Thomas and John Penn, Proprietors of Pennsylvania, conveyed to nine trustees a plot of ground in Carlisle "for the purpose of keeping and maintaining a Grammar School." This school for instruction in classical languages began under Henry McKinley, and later came under the principalship of James Ross, a distinguished author of Latin and Greek grammars. The Grammar School continued in operation until it was absorbed by the College, which was incorporated by the Legislature of Pennsylvania on September 9, 1783. Seven of the nine Grammar School trustees became trustees of the College.

The prime mover in the effort to obtain a college charter was the distinguished Dr. Benjamin Rush of Philadelphia, a signer of the Declaration of Independence and one of the country's leading physicians. He had the College named for his friend, John Dickinson, Esq., "in memory of the great and important services rendered to his country." Dickinson was the author of the famous "Letters from a Farmer in Pennsylvania to the Inhabitants of the British Colonies," one of the most potent documents in arousing patriotism in the Colonies. He was also a general in the Revolutionary War, principal draftsman of the Articles of Confederation, President of the Supreme Executive Council of Pennsylvania, President of Delaware, and later a signer of the Constitution of the United States. When the charter was granted, Dickinson was elected president of the Board of Trustees, an office he held until his death.

Dr. Charles Nisbet of Montrose, Scotland, a Scotch Presbyterian and one of the great scholars of his time, was the first President. From the beginning the new College prospered under the aggressive intellectual leadership of Dr. Nisbet. Twenty years from its inception the College had outgrown the confines of the Grammar School building. The site also was unsatisfactory and various efforts were made to obtain a better one, including that of the Carlisle Barracks which had been established by the British in 1751. The present main campus of the College, now named the John Dickinson Campus, was purchased from the Penn family in 1799 for \$151.50, and the construction of a large brick building was begun. This building was destroyed by fire in 1803 and in its place was erected the present West College, designed by Benjamin H. Latrobe, the architect of the Capitol at Washington. When the trustees appealed for subscriptions for the new building, the appeal met with wide response, President Thomas Jefferson, members of his cabinet, and Chief Justice John Marshall being among the contributors. The new College building was constructed of native limestone and is today regarded as one of the outstanding examples of Classical architecture in America.

By its charter the College is an independent, privately controlled institution. Since 1833 it has been related to the Methodist Church, a relationship which has been and is mutually beneficial. With the exception of four trustees who are elected by the alumni, the Board of Trustees—a majority of whom are always Methodists—is a self-perpetuating body.

The College is pervaded with memories that revert to the distant past. On the corner where Denny Hall now stands, Washington reviewed the

troops who in 1794 set out to quell the Whiskey Rebellion. The two literary societies, Belles Lettres and Union Philosophical, each over a century and a half old, count among their members former students including a President of the United States and Supreme Court Justices. Of these, James Buchanan, Class of 1809, as President of the United States, 1857-61, and Roger Brooke Taney, Class of 1795, as Chief Justice of the Supreme Court of the United States, 1836-64, headed their respective branches of government in the period of crisis preceding the Civil War. During the Civil War the Confederates occupied Carlisle and camped in front of Old West, the northern-most point reached by Confederate troops during the war. Among the Confederate troops were former Dickinson students at whose request Old West was put under protective guard. Two days later in the shelling of Carlisle, East College and old South College were damaged by shell fire. Following the Battle of Gettysburg, College buildings were used as hospitals for wounded men from that battlefield.

The College is widely recognized for its preparation for graduate work in the professions, and about fifty per cent of its graduates continue their education in graduate schools.

THE LIBERAL ARTS TRADITION

When the Charter of Dickinson College was adopted on September 9, 1783, the "Representatives of the Freemen of the Commonwealth of Pennsylvania in General Assembly met" stated that the purpose of the erection and establishment of Dickinson College was "for the education of youth in the learned and foreign languages, the useful arts, sciences and literature," and declared that nations have acquired their preeminence largely by the success with which they were able to instill into the minds of the rising generation "virtuous principle and liberal knowledge."

Dickinson College bases its educational goals upon these ideals. The intervening one hundred and seventy-five years, with their enriching knowledge of science and the arts and the demonstrated need for a spiritual background, have extended the college vision. While placing proper value upon the formal studies it offers, Dickinson desires equally to develop each student into a well-rounded personality. A carefully selected faculty, a Christian philosophy, and broad social and cultural interests are coordinated to achieve these ends. Formal and informal training on the

Dickinson Campus are thus directed toward creating men and women graduates of sound intellectual attainment, with integrity of character, a mature religious understanding, and a sense of social responsibility.

Only when these ends are attained can Dickinson College be satisfied that its traditions in the field of education and in the service of the nation are truly realized. These, then, are the goals which this institution cherishes for its ideal as a long established liberal arts college.

THE COLLEGE MACE

The Great Mace of Dickinson College is used on formal occasions as a symbol of the corporate authority of the College. The Mace is handsomely carved of cherry wood, forty-two inches tall. The head of the Mace bears the profile portraits of John Dickinson, Benjamin Rush and Charles Nisbet, the first President of the College, together with the College seal and many historic symbols. Surmounting the head of the Mace is a bronze mermaid designed after the weathervane over West College. The staff of the Mace is ornamented by two bosses and a finial acorn, all of which are made from wood of the black locust tree under which George Washington stood when he reviewed his troops in 1794. The bosses are embellished with other College symbols and the acorn bears the name of the sculptor who carved the Mace and the name of the donor. In a spiral around the staff of the Mace appear the names and dates of all the Presidents of the College since 1773, beginning with Henry McKinley, of the Classical Grammar School to which the College traces its foundation.

THE JOSEPH PRIESTLEY CELEBRATION

Each year in the Spring, a special commemoration is held known as the Joseph Priestley Celebration, at which time the Dickinson College Award in memory of Joseph Priestley, the discoverer of oxygen, is given to a distinguished scientist for his discoveries or contributions to the welfare of mankind. The award is in the form of the Priestley Medallion, a ceramic medallion struck from the original moulds made in 1775 by the first Josiah Wedgwood after a pen sketch of Priestley drawn from life by John Flaxman in the same year. The award is accompanied by a draft for one thousand dollars. Since its establishment in 1952 the Award has been presented to the following persons:

- 1952—Sir Hugh Stott Taylor, Dean of the Graduate School of Princeton University.
- 1953—Paul W. Burkholder, of the class of 1924, in 1953 Osborne Professor of Botany at Yale University, Discoverer of Chloromycetin.
- 1954—Karl T. Compton, chairman of the Corporation, Massachusetts Institute of Technology.
- 1955—Harold C. Urey, of the University of Chicago, Nobel prize winner in Chemistry.
- 1956—Detlev W. Bronck, president of Rockefeller Institute for Medical Research.
- 1957—Edward Teller, General Advisory Committee, Atomic Energy Commission.
- 1958—George Bogdan Kistiakowski, Abbott and James Lawrence Professor of Chemistry, Harvard University.
- 1959—Willard Frank Libby, Member Atomic Energy Commission.

THE DICKINSON COLLEGE ARTS AWARD

Members of the faculty, in order that the College might recognize achievement in the arts as well as in the sciences, undertook the establishment of this award to honor Dr. William W. Edel for his services to the College as President. This award in the arts, like the Dickinson College Award in the sciences in memory of Joseph Priestly, will be in the form of a Wedgewood ceramic medallion and the sum of one thousand dollars. Trustees of the College have supported the purpose of the award by personally raising an endowment fund of sufficient size to provide annually the monetary portion of the award. The first presentation of the award will be in 1959.

College Library

THE College Library, located in Bosler Hall contained 106,330 volumes and received 534 periodicals as of July 1, 1958. It has been designated as a depository for United States government publications. Students have free access to the stacks, and no limit is placed on the number of books a student may borrow.

The Reference Room of 2500 volumes adjoins the Main Reading Room. The Reserved Book Room provides space for the study of class assignments. Microfilm, microcards and recordings of music and literary and historical material are also kept here, with a room and booths for their use nearby.

The Alexander A. Sharp Recreational Reading Room offers opportunities for browsing among books and periodicals of general interest. A tea and coffee hour, held in the Sharp Room on Thursday afternoons, brings students and faculty together.

Rare books, manuscripts and other special collections, known collectively as "The Spahr Library," are located on the second and third floors of the Library. They are under the supervision of the Curator of Dickinsoniana, whose office is in the Boyd Lee Spahr Room. In this room may be seen the original Dickinson College library, consisting of 1971 volumes given by John and Mary Dickinson in 1784. These volumes were selected by her husband from those which Mrs. Dickinson had inherited from her scholarly father and grandfather, and represent not only the learning and typography of the 16th, 17th and 18th Centuries, but the major part of one of the great book collections of Colonial America. Here also are 35,000 manuscripts, including autographs of all the Presidents of the United States, 260 letters and documents of James Buchanan, of the Class of 1809, letters of political, literary and artistic figures, and of founders and alumni of the College. Nearby, books by and about alumni, faculty and trustees are shelved in a special arrangement. Visitors to the Spahr Room will see many relics of the long history of the College, including the unique collection of 18th Century scientific equipment purchased by the trustees from the heirs of Joseph Priestley in December, 1811. Its

central feature is the great compound burning-glass used by Priestley as a source of pure heat, and associated with his discovery of oxygen in 1774. That date and event mark the foundation of modern chemical science, and Priestley's burning-glass, air gun, telescope and smaller laboratory equipment, in active use at Dickinson College for many years, represent a continuance on this campus of his work.

The Rare Book Room contains many of the Library's most valuable holdings. A part of this collection came as the gifts of Dr. Benjamin Rush and other founders of the College, and its growth, continued through the years, owes much to loyal friends of today.

On the third floor of the library, the English Research Room, equipped by the Class of 1900, houses a collection of rare books in the field of literature known as the Paul H. Doney Memorial. Here also are rare and important works on Walt Whitman, the gift of Charles E. Feinberg. Here and in the manuscripts vault is the John Drinkwater Collection, the distinguished gift, supported by an endowment, of Roscoe O. Bonisteel.

The American History Seminar Room is equipped for study and classroom use with a reference and research collection of 1800 volumes.

The Art Seminar Room contains an art library of 1950 volumes, over 6000 slides, and approximately 2500 prints and photographs. A collection of paintings, drawings, prints and other original works of art is stored nearby. The Carnegie and Linn Print Collections are important parts of this. It includes also the fragments of Greek sculpture given by Commodore Jesse D. Elliott in 1836, and the recently-received W. E. Minnich Collection of American Indian artifacts. Adjacent to the Art Seminar Room is a small gallery where special exhibits are hung.

The Alfred Victor duPont Chemistry Reading Room, given in 1957 by Irénée duPont, is located in nearby Althouse Hall. It enables the Library to extend its services to the laboratory, and so join in carrying forward our traditional emphasis on the sciences. This tradition and the new peak it achieved under Professor Thomas Cooper brought Alfred Victor duPont to Dickinson in the class of 1818, and books presented by him as a student and as President of E. I. duPont de Nemours and Company are still preserved in the Library.

The Dickinson College Library Guild, composed of alumni and friends of Dickinson College, was organized in 1903 for the purpose of creating a permanent endowment for the College Library. In addition to the appropriation for the purchase of books and periodicals, the Library now receives an annual income of over \$5,000.00 from the Guild. By action of the Board of Trustees of the College all moneys contributed become a part of the permanent endowment fund of the Library, the proceeds of which are devoted solely to the purchase of books.

During orientation, Freshmen are introduced to the various departments and services available in the Library. In addition, in cooperation with the course, "Introduction to Social Science," Freshmen receive lectures and individual practice in basic research methods and library use. Upper classmen frequently receive more specialized instruction in research bibliography.

A Library Handbook which has been prepared by the Reference Librarian is obtainable at the Library and is especially recommended to entering students. It contains plans of the building, a description of the book collection, information on the services available to students and a general guide to the use of library materials.

The Library is open from 7: 50 A. M. to 5: 45 P. M., and 6: 45 to 9: 45 P. M., except on Saturday, when it is open from 7: 50 A. M. to 5: 00 P. M., and on Sunday, when the hours are 2: 00 to 5: 00 P. M., and 6: 45 to 9: 45 P. M.

Buildings and Equipment

ACADEMIC BUILDINGS

THE plant of the College, consisting of twenty-two buildings, is constructed chiefly of limestone, in Classical design. The John Dickinson Campus, on which six of the College buildings are located, is framed by a low limestone wall, most of which was erected in 1833. This adds to the distinctive charm of the landscape. The other buildings are grouped around this campus and on the Benjamin Rush Campus, formerly the Moore estate, a twelve-acre tract diagonally across from the older campus. The grounds, buildings, and equipment of the College are conservatively appraised in excess of \$5,700,000, and its invested endowment and other capital funds are approximately \$5,400,000, market value.

WEST COLLEGE (1803) of the Classical style of architecture, built of native limestone, is a four-story building located in the center of the John Dickinson campus. It contains administrative offices, class and assembly rooms, the Presidential portrait gallery, and the spacious Memorial Hall. On the lower floor are the McCauley room, the Durbin Oratory, conference rooms, the public relations office, and secretarial rooms. Administrative offices are on the first and second floors. The third floor is given over to classrooms and the Electronic Modern Language Laboratory.

JACOB TOME SCIENTIFIC BUILDING (1884), a gift of the late Hon. Jacob Tome, of Port Deposit, Md., is of native limestone, trimmed with Ohio sandstone. It was completely renovated in 1958. It contains complete provision for the college department of physics.

JAMES W. BOSLER LIBRARY, originally erected in 1885 in honor of James W. Bosler, Class of 1854, was rebuilt and enlarged in 1940-41 in native limestone of Classical architecture, accommodating the library with numerous reading and reference rooms and the Chapel.

MUSIC BUILDING (1899), of limestone, houses the classrooms and laboratories of that department.

DENNY HALL (1905) contains recitation rooms, student publication offices, faculty offices, R.O.T.C. offices, and halls of the two historic literary societies which date back more than a hundred and fifty years.

ALUMNI GYMNASIUM (1929), of limestone, provides ample facilities for all indoor athletics and physical education. These include a white-tiled swimming pool 25x75 feet. The main auditorium seating 3000 is also used for commencement and alumni activities.

BAIRD BIOLOGICAL BUILDING (1937) is located on the Benjamin Rush Campus and is named in honor of Spencer Fullerton Baird, Class of 1840, professor, and former Secretary of the Smithsonian Institution. It is a three-story stuccoed stone structure housing the Department of Biology. It also contains a collection of South American birds originally owned by Professor Baird and the DeLude Shell Collection.

SOUTH COLLEGE (1948), of limestone, adjacent to the Alumni Gymnasium, is used as a recreation and classroom building. Squash courts are attached to South College.

DICKINSON COLLEGE CHAPEL AND ALLISON METHODIST CHURCH (1957), of limestone, on the Benjamin Rush Campus, is used jointly by the college and the church.

THE C. SCOTT ALTHOUSE SCIENCE HALL (1957), of limestone, on the John Dickinson Campus is used as a Chemistry and Geology building with classrooms and laboratories.

THE ROSCOE O. BONISTEEL PLANETARIUM (1958), the gift of Roscoe O. Bonisteel, of the Class of 1912, is located in the Tome Scientific Building.

REED HALL (1958), located on the southeast corner of the campus is a three-story stuccoed structure, named after George Edward Reed, President of the College from 1889 to 1911, and used to house the classrooms, offices, and laboratories of the Education and Psychology Department.

RESIDENCE HALLS

EAST COLLEGE (1836), of the same materials and style of architecture as West College, is a four and a half story building, used as a residence for men and for faculty offices.

CONWAY HALL (1904) is a gift from the Hon. Andrew Carnegie, and is named as a tribute to his friend, Moncure D. Conway, Class of 1849, distinguished American writer and divine. It is used as a residence for men.

METZGER HALL (1881), located three blocks east of the main campus, is the residence for freshmen women. It is a four-story brick structure.

GIBBS HOUSE, remodeled in 1937, the endowed gift of Rebecca McClure Gibbs, located diagonally across the street from Metzger Hall, is a three-story dwelling used as a residence for women.

BIDDLE HOUSE (1946), located on the edge of the main campus, is a three-story building used as a residence for women.

MCINTIRE HOUSE (1948), located on the corner adjacent to the Benjamin Rush Campus, is a two and one-half story building used as a residence for women.

DRAYER HALL (1950), a modern fireproof, four-story limestone residence for women, located on the Benjamin Rush Campus, houses 125 women students.

MONTGOMERY HALL (1953), east of Conway Hall, is a seven-apartment building which houses members of the Faculty and their families.

MORGAN HALL (1955), a modern, fireproof, four-story limestone building located on the Benjamin Rush Campus, houses freshmen men. Dining facilities for freshmen are located here.

MATHEWS HOUSE (1957), located on the edge of the Benjamin Rush Campus, is a three-story brick building used as a residence for women.

OTHERS

THE PRESIDENT'S HOUSE, a stately brick mansion at the southeast corner of the Campus, was erected in 1833, and has been the residence of the Presidents of the College since 1888.

THE HERMAN BOSLER BIDDLE MEMORIAL ATHLETIC FIELD, the gift of the Hon. Edward W. Biddle, Class of 1870, and Mrs. Biddle, in memory of their son, Herman Bosler Biddle, Class of 1903, is a field of 12 acres completely equipped.

HEALTH CENTER, located west of Conway Hall, is a completely equipped dispensary and infirmary.

THE MAINTENANCE BUILDING (1952), west of Conway Hall, houses the carpentry, electrical, painting and plumbing workshops and a garage for the college automobiles and trucks.

JOHN DICKINSON CAMPUS. This campus of eight acres lies in the western part of the borough of Carlisle. It was purchased from the Penns by the Trustees in 1799. Prior to that time the site of the College was the old Grammar School property in another location in Carlisle, where instruction was begun in 1773. Upon the John Dickinson Campus and adjacent to it are grouped most of the principal buildings of the College.

BENJAMIN RUSH CAMPUS. The College added to its property in 1931 by purchasing "Mooreland," an estate of twelve acres lying just southwest of the main campus. On this campus, named the Benjamin Rush Campus in 1950, are located Drayer Hall, residence for women, Morgan Hall, residence for freshmen men, the Baird Biological Building and the College Chapel.

College Activities Program

PHI BETA KAPPA SOCIETY

ON April 13, 1887, the first chapter of the Phi Beta Kappa Society in Pennsylvania was organized at Dickinson College and named the Alpha of Pennsylvania. Seniors of high scholastic standing are eligible for membership and are usually elected upon completion of their college course. Certain of the highest ranking students, however, may be elected in September.

STUDENT GOVERNMENT

Students at Dickinson College govern wide areas of student life on the campus through representative student government. The Student Assembly, which consists of all students of the College, is the primary agency of this government and meets on call when required to act upon constitutional questions. The executive body of the Student Assembly is the Student Senate which carries on the day-to-day business of student government. As such it promotes the welfare of the student body by effecting a close union among students, and acts as an official liaison group between students and college authority. The Senate acts for the Assembly in scheduling and regulating all organized student activities. It controls the Student Activities Budget. Various standing committees operate for, and are directly responsible to, the Senate. Two student government agencies of major importance are the Student Social Committee and the Interfraternity Council. Both operate under the general oversight of the Student Senate with large freedom of action within their special fields of interest and concern.

STUDENT-FACULTY JUDICIAL COUNCIL

Matters of student discipline, except cases of failure to meet routine administrative directives or grave offenses involving moral integrity, are referred to the Student-Faculty Judicial Council, which is composed of four students and three members of the Faculty. When approved by the President and Dean of the College the findings of the Council are binding upon all students and organizations of students brought before it on charges. On appeal or review, the findings may be modified or set aside by the Faculty or by the President of the College.

WOMEN'S STUDENT GOVERNMENT

The House Presidents' Council is the over-all student governing body for the women's residence halls. The Council consists of three council officers and the presidents of each of the women's residence halls. Meeting weekly with the Dean of Women, the Council acts on problems referred to it by the various house councils. The house council in each dormitory is responsible for the smooth operation of student government within the residence hall, takes care of minor infractions of house rules and works toward high morale and an informal social program within the residence.

PUBLICATIONS

THE DICKINSON ALUMNUS: published quarterly by the General Alumni Association.

THE DICKINSON COLLEGE BULLETIN: published twelve times a year by the College.

THE DICKINSONIAN: the student newspaper, published weekly during the college year.

THE DAILY SENATOR: a single sheet of announcements, scores, and late news, published five mornings a week by the Student Senate.

THE MICROCOSM: the college annual, sponsored by the Junior Class.

THE "D" BOOK: a handbook published annually for the information of new students.

THE LITERARY BULLETIN: a student magazine published quarterly.

THE HORNBOOK: published semi-annually, sponsored by the Belles Lettres Society.

ORGANIZATIONS

RELIGIOUS ACTIVITIES. Dickinson College is committed to the Christian interpretation of life and duty. It, nonetheless, provides opportunities for students of all faiths to conserve and cultivate their religious heritage. One of the fundamental purposes of the College is to prepare students for active religious life in their homes and communities.

The over-all religious activities of the College are organized under the Dickinson College Interfaith Council, one of whose major projects during the academic year is the organization and carrying through of an

annual Religion-in-Life Week. Other projects are carried out by constituent organizations of the Council, such as the Student Christian Association and the Alpha and Omega Society—an organization for students interested in careers in the Christian ministry and other Christian activities. Among the services rendered by these organizations are weekly religious meetings, help projects of various kinds, and Christian Service programs in churches of Pennsylvania, New Jersey, Maryland, and Delaware.

THE CHOIR, directed by a member of the music faculty, sings both sacred and secular music at Chapel programs, public concerts, and on tours. One program during the year is given in combination with a nationally-known concert artist. Membership is open to all students.

THE ORCHESTRA, directed by a member of the music faculty, is a combined college-community organization. At least one public concert is given each year, plus performances at Chapels and other school functions. Membership is open to students, faculty and townspeople.

THE BAND is a marching and concert band which plays for football games, rallies, and other public functions. Its student officers and faculty director welcome all qualified instrumentalists.

LITERARY SOCIETIES. The Belles Lettres Society and the Union Philosophical Society, founded in 1786 and 1789 respectively, are the oldest student activities on the campus and have contributed to the intellectual development of Dickinsonians for over a century and a half. The former is devoted to literary criticism, the latter to matters of political debate.

THE MERMAID PLAYERS present several full-length productions a year under professional direction, in addition to several seasonal programs. Opportunities exist for training and for practical experience in all phases of dramatic production, and membership is open to students, faculty members, and guests from the community. An annual feature is the presentation of the Gould Memorial Prizes in Drama.

THE DEBATE COUNCIL, under the guidance of a college-appointed director, participates in an extensive program of intercollegiate debating. All students are eligible for membership; those students with good scholastic averages are eligible to travel with the squad. Dual debates and tournaments are scheduled with other colleges throughout the East and South.

THE INTERNATIONAL RELATIONS CLUB, established in 1932 under the auspices of the Carnegie Endowment for International Peace, promotes the study of contemporary international affairs and world problems. In its monthly meetings, reports are presented by students, faculty members, or guest speakers, and these are followed by an informal discussion. The Dickinson I.R.C. is a member of the Association of International Relations Clubs, sponsored by the Foreign Policy Association.

THE MOHLER SCIENTIFIC SOCIETY, through monthly meetings which are open to all students, fosters an interest in scientific subjects. Its programs are particularly stimulating to science majors and pre-professional students.

THE FUTURE TEACHERS OF AMERICA, BENJAMIN RUSH CHAPTER, offers all students considering teaching as a vocation an opportunity to hear distinguished educators and to participate in practical discussions of the teaching profession.

THE ASSOCIATION OF THE UNITED STATES ARMY ROTC COMPANY is open to all junior and senior ROTC students. Through its monthly meetings with Army guest speakers and field trips to Army installations an exchange of ideas and information is gained to bring about a better understanding of the proper role of the Army of the United States.

THE PERSHING RIFLES is open to all freshman and sophomore students. Through its weekly drill meets it encourages, preserves and develops the highest ideals of the military profession.

THE "D" CLUB, composed of students who have won a varsity letter, recognizes athletic ability, encourages sportsmanship, and generally seeks to further the total athletic program of the College.

THE DICKINSON FOLLIES produces each spring an original musical comedy, written and directed by the students with the assistance of the college instructor in drama.

THE MEN'S GLEE CLUB, a student-directed organization specializing in college songs, presents fall and spring concerts on the campus, sings at various meetings and alumni gatherings, and makes guest appearances off the campus.

THE AQUATIC CLUB gives its members an opportunity to swim and also to organize and participate in water pagentry.

FRATERNITIES. Ten national fraternities have chapters at Dickinson—Phi Kappa Sigma, Phi Kappa Psi, Sigma Chi, Beta Theta Pi, Phi Delta Theta, Sigma Alpha Epsilon, Kappa Sigma, Alpha Chi Rho, Phi Epsilon Pi and Theta Chi. The Commons Club is a local club for men students.

SORORITIES. Four national sororities are represented on the campus—Pi Beta Phi, Chi Omega, Phi Mu and Zeta Tau Alpha. The Independent Women's Organization represents non-sorority college women.

SUI GENERIS, a social organization open to all non-sorority women, includes social events, competition in intramural athletics and social service projects in its program of activities.

THE INDEPENDENT MEN. Men who choose not to affiliate with any fraternity or the Commons Club meet together periodically. They elect a senator to student government. Membership is open to all non-affiliated resident and non-resident male students.

Students who have met the prescribed academic requirements may join a fraternity or sorority. Students who have met these conditions may be pledged at the beginning of the Spring semester.

HONORARIES. In addition to Phi Beta Kappa, there are six national honorary fraternities and three local honorary societies at Dickinson:

TAU KAPPA ALPHA, a national honorary fraternity for forensic and scholastic attainments;

OMICRON DELTA KAPPA, a national fraternity for men students who have achieved distinction in campus leadership and maintained good scholastic averages;

PI DELTA EPSILON, a national fraternity recognizing outstanding service in the field of journalism;

DELTA PHI ALPHA, a national fraternity honoring students in German studies;

ALPHA PSI OMEGA, a national honorary fraternity recognizing outstanding dramatic activity;

PI GAMMA MU, a national fraternity honoring students in Social Science.

RAVEN'S CLAW, a senior honorary society for men;

SKULL AND KEY, a junior honorary society for men;

WHEEL AND CHAIN, a senior honorary society for women.

Admission

THE usual requirement for entrance to Dickinson College is the satisfactory completion of a secondary school program of at least fifteen units, including four units of English, two units of one foreign language, and two units of college preparatory mathematics. Of the remaining seven units, six shall be from academic courses.

In considering applicants for admission to the college, all of the following factors are important:

1. Personal application and school record on forms supplied by the college. (NOTE: Applicants are required to include with their final formal application a fee of \$10. This application fee is not refundable nor is it credited to any account.)

2. Recommendation of the secondary school principal or headmaster, and of others who know the applicant.

3. Personal interview with the Dean of Admission or an appointed representative.

4. The tests of the College Entrance Examination Board. The Scholastic Aptitude Test is required of all applicants. Those who desire an early decision on their application are encouraged to take this examination in December or January of their senior year. It is strongly suggested that applicants take the Achievement Tests in English, in a foreign language if the applicant wishes to continue a language begun in secondary school, and in mathematics if the applicant wishes to elect that subject in college.

Application and schedules for these examinations may be obtained by writing to the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

Unusual cases involving divergence from these requirements will be considered on an individual basis by the Committee on Admissions. Students from other lands should submit requests as early as possible in order that they may be furnished a copy of the special instructions pertinent to them.

The Admission Office is open for interviews on weekdays from 9:00 A.M. until 11:30 A.M. and from 1:30 P.M. until 4:00 P.M., and on Saturdays from 9:00 A.M. until 12:00 noon, but through the summer months and until Labor Day, the Admission Office (and all administrative offices) will be closed on Saturdays. Appointments in advance of the interview are required.

Charges and Expenses

THE yearly tuition at the college is \$950. All students are required to pay a Registration Fee of \$50 which is credited on the college bill. This fee is not returnable if the student cancels his or her registration.

NOTE—The Tuition Fee is \$950 for the academic year of two semesters. However, the cost *to the college* of providing this tuition is considerably over this amount. This leaves a balance which must be made up each year from gifts by alumni or friends or from income on endowment (which is composed of gifts made in former years). Those parents who wish to assist the college in meeting this “additional cost of education over tuition” may make a gift to the college, which gift is tax deductible.

College bills for each semester are presented and are payable at the opening of the semester.

Failure to adjust college bills when due will result in exclusion from College, and no student can have honorable dismissal or certificate of advancement until bills have been adjusted and other reasonable obligations met.

The Trustees reserve the right at any time to amend or add to the regulations of the College, including those concerning fees and methods of payment, and to make such changes applicable to students at present in the College, as well as to new students.

DISCOUNTS—For two or more students from the same family, and for children of ministers, a discount of 10 per cent is allowed on the Tuition account, but not on any other part of the College bill. No double discount is allowed. Liberal scholarship aid may be made available to ministerial students.

ROOMS—Dormitory rooms are secured to the students during term-time only, and occupants are responsible for damage to them. When students damaging property are unknown, the cost of repairs may be assessed toward the close of the College year upon the whole body of

students, as a special damage account. Any student proved to be guilty of willful destruction of, or damage to, College property, may be required to pay not only the cost of replacement or repair, but also a fine as determined by the Faculty, said fine to be placed to the credit of the special damage account.

All freshmen men other than day students are required to room in the College dormitory for freshmen. Male members of the other classes who are not day students must room either in the College dormitories or in the fraternity houses.

FEES

Budget for student organizations for various student activities, including cultural affairs, athletics and medical fees. Per Semester	\$30.00
Transcript of Record, extra copies each	1.00
Practice Teaching in High School	35.00
Graduation Fee for seniors, including use of cap and gown	10.00
Damage Replacement Account. (This will be returned in whole or in part depending upon the amount of damage)	10.00
Special Students, per semester hour	40.00
Late changing of courses (dropping one and adding another)	5.00
but not to exceed	15.00
Changing of schedule	15.00
Late writing of schedule	15.00
Administrative charges for Law elections, per hour	17.50
ROTC fee, one semester only	5.00

APPLICATION FEE

Dickinson requires a non-refundable service charge of \$10 from all candidates for admission. This fee defrays in part the expense of investigating records, of advising applicants and other services provided by the Office of Admission. It is not returnable and is not credited on any subsequent bill.

Checks should be made payable to Dickinson College

FOR MEN RESIDENT IN COLLEGE

Room Rent (each semester):

- Morgan Hall—\$110.00 per student for double room;
\$125.00 for single room.
- Conway Hall—\$100.00 per student for double room;
\$110.00 for single room.
- East College—\$90.00 per student for double room;
\$100.00 for single room.

Rooms are furnished with the basic pieces of furniture, and there is a study light outlet for each student, in addition to a ceiling light. Personal items such as laundry, books, blankets, sheets, pillow cases, towels and personal toilet articles are furnished by the individual student.

FOR WOMEN IN DORMITORIES

All women students, except those living with relatives, are required to reside in College dormitories, and are charged \$1,750 for the year, payable \$50 at registration, \$875 at the beginning of the first semester, and \$825 at the beginning of the second semester. This provides for basic essentials, such as Tuition, Room and Board. Personal items such as laundry, books, blankets, sheets, pillow cases, towels, personal toilet articles, and fees are not included in this account.

Returning women students must pay the Registration fee of \$50 prior to room selection for the ensuing year.

BOARD

All resident women students are required to board at the College dining halls. The residents of Metzger and Gibbs board at the dining hall at Metzger Hall. The residents of Drayer Hall, Biddle, Mathews, and McIntire Houses board at Drayer Hall.

All freshman men are required to board at the College dining hall, Morgan Hall. Boarding arrangements include dining room service on a semester basis. The charges for the semester are \$238.00.

The College also reserves the right to make a proportionate increase in board charges in the event that there shall occur a general increase in food costs.

A Snack Bar is operated in South College where students may purchase breakfast, lunch and dinner at nominal prices.

HOW MUCH DOES IT COST TO GO TO DICKINSON COLLEGE?

Just how much it will cost for a year at Dickinson College depends on the individual student. The general answer is, "Usually from \$1,800 to \$1,900 minimum for a year of two semesters." The amount spent above these figures will depend on the expenditures the student feels he must make over and above the minimum costs.

The table of estimated expenses appearing below will give an idea of the minimum costs. The table does not include, of course, what may be spent for clothing, entertainment, or other optional incidental items.

ESTIMATE OF NECESSARY EXPENSES OF THE
AVERAGE STUDENT

	<i>Men</i>	<i>Women</i>
Tuition	\$950*	\$950
Student Budget	60	60
Damage Replacement Account	10	10
Books and Supplies	85	85
Room Rent	220	....
Board—College Dining Room	476	....
Room and Board—required .....	....	800
	\$1,801	
Total—Men		\$1,905
Total—Women		

* Payable \$50 at registration, \$475 at the beginning of the first semester, and \$425 at the beginning of the second semester.

Fraternity costs range from \$75 to \$100 additional expense.

PART-TIME STUDENTS

Full-time students are those carrying at least 12 hours of instruction per week. Part-time students are those carrying fewer than 12 hours of instruction per week.

Auditors' fees are the same as those listed for credit courses. Full-time students are not required to pay audit fees.

PLAN OF PAYMENTS

All charges and fees are due at Registration. Where a satisfactory plan is presented to the Treasurer of the College, a student is permitted to register under a deferred payment agreement. The Tuition Plan, Inc., The Insured Tuition Payment Plan, and other approved plans are acceptable. Additional information on these plans is obtainable from the Admission and Treasurer's offices.

WITHDRAWAL FROM COLLEGE

A student in good standing is entitled to honorable withdrawal at all times. The date on which the Dean of the College approves the student's withdrawal form is the official date of withdrawal. A student desiring to withdraw voluntarily from the College must obtain from the Registrar an Application for Withdrawal. This form must be properly filled in and returned to the Registrar before the student leaves the campus. Otherwise, he will forfeit his right to honorable withdrawal until he may have been reinstated by faculty vote. No refunds will be made by the Business Office until the Registrar's Office certifies that the withdrawal procedure has been properly completed.

Every college has many expenses of a continuing nature, such as plant maintenance and faculty salaries. In order to plan and maintain these services over the entire year, it is essential that the annual income from fees be assured. It is understood, therefore, that students are entered for the entire college year.

If a student called away during the semester by an emergency finds it impossible to resume his work, he must notify the Registrar's Office of his voluntary withdrawal immediately. Unless the notice is filed with the Registrar within three weeks, the student will forfeit his right to honorable withdrawal.

If the withdrawal occurs before the end of the semester, the student is obligated for tuition charges as follows:

	<i>First Semester</i>	<i>Second Semester</i>
Two weeks or less	\$145	\$610
Between two and three weeks	240	695
Between three and four weeks	335	780
Between four and five weeks	430	865
Over five weeks	525	950

No Refund Will be Allowed on Room Rentals and Fees, but unused board at \$5.00 per week may be refunded.

SUMMER SESSIONS: Scholarships and discounts are not applied to accounts in summer session charges. If withdrawal occurs before the end

of the summer session, the student is obligated for tuition charges as follows:

One week or less	40 per cent
Two weeks or less	80 per cent
After two weeks	100 per cent

Special consideration is given men called into military service involuntarily whereby fractional credit may be given for work carried at a passing level.

No reduction will be allowed for absence of students withdrawn for unsatisfactory conduct or scholarship.

SOLICITATIONS

Agents are not permitted to solicit students on the campus or in the dormitories without first securing permission from the Treasurer's Office.

LOSSES

Dickinson College will not be responsible for losses from fire or theft that may occur in or on College property.

General Information

REGISTRATION—Under normal conditions, registration is completed prior to the beginning of classes. However, changes in registration (or late registration) are permitted provided they are made within the first ten class days.

CHAPEL—Chapel and assembly services are held twice a week. All students are required to attend a specified number of such services. In addition, voluntary mid-day devotions are held daily in the Durbin Oration in West College.

GUIDANCE—The student is the center of the College's educational program. Counseling begins with the pre-registration interview with the Dean of Admission. Each entering freshman is assigned to a Faculty Adviser who will assist him in adjusting to college life, in academic planning, and in meeting such other problems as may arise in his first two years. To help in attaining a better understanding of his abilities, the freshman is given achievement, personality, vocational aptitude, and other psychological tests early in the school year. The results of these tests are discussed with the student by the adviser. A corps of highly selected upperclassmen serve voluntarily as Student Counselors in the residence halls. When the student is accepted as a departmental major, which occurs ordinarily at the close of his second year, the chairman of the department becomes his academic adviser. Completing the formal advisory staff, which is headed by the Dean of the College, are a number of specialists, including the Deans of Men and Women, the General Counselor, the Clinical Psychologist, the Director of Testing, the Religious Adviser, the Placement Officer, and advisers in such pre-professional interests as medicine, law, and engineering. This formal advisory system, however, does not replace the individual faculty member, who daily performs a wide variety of informal counseling made possible by the limited enrollment of the College. The whole guidance program is thus designed to help the individual to effective adjustment and successful accomplishment.

GOVERNMENT AND DISCIPLINE—Students are expected to conform to the requirements of good morals and good citizenship. In the absence

of specific regulations, the Faculty is charged with passing on matters respecting the general life of the students in the College. In practice, however, the regulation of the life of the student body is left largely to the students themselves. Among the regulations of the College is the following: "In particular, any use of intoxicating liquor on College property or in the fraternity houses, failure to give truthful testimony to an officer of the College and dishonesty in College work are considered very serious offenses, and may lead to dismissal."

The College reserves to itself the right to remove from its rolls at any time a student who proves unsatisfactory, or to require a student to withdraw if it is felt that the student is out of sympathy with the spirit and ideals of the College, even though he may not have broken any formal rules.

It is understood that the foregoing conditions are accepted by the parents and guardians of Dickinson College students, and by all students admitted.

SELF-HELP EMPLOYMENT—Self-help through employment in various departments of the College is available to needy students, application for which should be made to the office of the Treasurer. As it is assumed that the acceptance of such employment is to assist the student in meeting his College bills, any amounts so earned are subject to application to the student's account as long as he has any unpaid balance.

PLACEMENT—The interest of the College in its students does not terminate with graduation. The Dean of Men is the Placement Director of the College and arranges for student interviews on and off the campus with the personnel officers of many large business and industrial organizations. The Dean of Men is assisted in these duties by the Placement Officer. In addition the Dean of Men and the Dean of Women offer vocational counseling and guidance to students who request this service. Vocational guidance materials and company information are kept up to date in the office of the Placement Officer and in a special section of the library.

The placement of teachers in secondary schools is coordinated through the office of the Dean of Men and the Department of Education and Psychology.

HEALTH SERVICE—A modern Health Center is designed to provide care to all full time students in case of illness or accident. A dispensary and waiting room are located on the first floor. The second and third floors contain wards and private rooms for patients. A registered nurse lives at the Health Center and is in charge.

For emergency and minor illnesses, infirmaries for resident women are provided in Metzger Hall and in Drayer Hall, as well as first-aid equipment in the Department of Physical Education.

The medical staff of the College consists of two physicians and a registered nurse. The service of the physicians is available to all students under regulations fixed by the College. The College provides these health services, but does not assume legal responsibility for the health of its students. For special treatment and serious illness, the Carlisle Hospital is available. Students who do not wish to use the health benefits of the College may make other arrangements on their own responsibility.

ACCIDENTS—Arrangements have been made by the College with the Insurance Company of North America to provide accident insurance policies at low rates. Such policies are \$9 for men and \$5 for women yearly. All students are required to avail themselves of this offer, since the College can assume no liability for expenses connected with accidents. In case a student requests a release from this regulation because he already has insurance, or because his parents do not desire it, a statement from his parents concerning this is necessary.

Programs of Study and Lectureships

AS a liberal arts college, Dickinson provides its students with a broad general program of study. This plan gives assurance that each student becomes familiar with the major areas of human knowledge and gains the background for realization of the aims set forth in the College purpose. After these foundations are laid he is encouraged, particularly in the upper levels of college work, to seek a deeper understanding of a particular field through specialized study.

Special attention is given to students preparing for graduate work on the university level, law, medicine or dentistry, the ministry, and teaching. Plans of study have been carefully worked out to meet graduate or certification requirements for these fields. Excellent background courses are also offered for government, business, social service, journalism, medical technology, and similar careers. Each year a high percentage of the graduating class continue formal study in professional and graduate schools throughout the country. All students, however, whether interested in a terminal liberal arts education or aiming at intensive specialization later on, must comply with the rules governing distribution and concentration of courses.

THE HEALING ARTS

Through the years many Dickinson students have been prepared for graduate study in the healing arts. Schools of medicine, dentistry, osteopathy, optometry, and nursing vary in their admission requirements. Admission to professional schools is generally based on a student's college record, the recommendations of faculty members, scores attained on an aptitude test, and interviews by an admissions officer. Pre-medical and pre-dental students are advised to elect chemistry in their first year and to register with the pre-medical adviser before completing their course schedules.

COLLEGE-LAW SCHOOL PROGRAM

A student at Dickinson College planning a law career has distinct advantages. The location of the Dickinson School of Law (a separate institution) contiguous to the college campus has made possible the de-

velopment of a combined college-law program which has the approval of the State Board of Law Examiners of Pennsylvania.

Under this program a student, if accepted by the School of Law, may register for six semester hours of law in his junior year; and (1) if his College average in the junior year is between 2.25 and 2.75, and (2) if his grades in all his law courses are 60% or better, he may elect 18 hours of law courses in his senior year. If his average in his College courses in the junior year is 2.75 or better and his grades in all law courses are 60% or better, he may elect from 18 to 24 hours of law courses in the senior year, thus making possible the completion of a full year of law by the time he meets the requirements for graduation from the College. A student who elects no law courses in the junior year may take as many as six hours of law in his senior year. In no instance may the total number of class hours carried simultaneously in the College and Law School exceed eighteen hours per week.

The combined plan is available only to the student who enters College not later than the beginning of the sophomore year. If he elects the combined plan, he must register his intention with his departmental adviser and secure permission of the Dean of the College and the Dean of the Law School. The student taking the combined program is expected to elect English 25 and to complete the College requirements of distribution and concentration. An extra charge, payable to the Treasurer of the College, is made if the student elects courses in the Law School to count toward his College degree.

THE MINISTRY AND RELIGIOUS SERVICE

A broad base of training in the liberal arts is required as undergraduate preparation for entrance into either a theological seminary or a religious training school for religious social work. No particular course is prescribed for pre-ministerial students. They may profitably major in any of the following fields: Religion, Philosophy, Psychology, English, Sociology, History, or Political Science. To be adequately prepared for advanced studies in a theological seminary, they should elect two years of Greek and from 15 to 18 hours in the Department of Philosophy and Religion. A thorough training in Public Speaking is also recommended.

PROGRAMS FOR ENGINEERING STUDENTS

Dickinson College furnishes a program for engineering students which combines the advantages of the smaller liberal arts college with the training to be secured at a large urban engineering school. By arrangement with the University of Pennsylvania Engineering Schools, Rensselaer Polytechnic Institute, and the Case Institute of Technology, the College offers a five-year course, the first three years of which are spent at Dickinson, the final two at the engineering school selected. A student may secure a degree both in liberal arts and in engineering through this five-year program.

The combined plan is available only to the student who enters the College not later than the beginning of his sophomore year. Candidates for an engineering program should inform the Dean of Admission of Dickinson College that they wish to apply for this program. The student should also indicate which of the three engineering schools he wishes to attend.

TEACHER CERTIFICATION

The Department of Education offers undergraduate courses leading to the Provisional Secondary Teacher's Certificates. The Department provides the courses necessary for certification in many states, including Pennsylvania, New Jersey, New York, Maryland, and Delaware. There is a minor offered in Education. The student preparing to teach completes his major in other departments of the college.

THE WASHINGTON SEMESTER

In cooperation with The American University and an allied group of colleges and universities, this College offers four high-ranking juniors the opportunity to study during the spring semester at The American University, Washington, D. C. These students should preferably be majors in either economics, history, political science, or sociology. Application must be made before October 15 to the Dean of the College through the chairman of the department in which the student is completing his field of concentration and the coordinator of the Washington Semester program.

THE ARMY ROTC PROGRAM

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

In 1952 the Department of the Army approved the establishment of a General Military Science unit of the Army Reserve Officers' Training Corps at Dickinson College. Highly qualified commissioned and non-commissioned instructors were assigned and the Corps was organized. The unit has since grown steadily in size and stature and today is training approximately two-thirds of all physically qualified incoming male students of the College in military fundamentals, citizenship, and leadership. Participation in the ROTC is strongly encouraged by the College authorities in the belief that the privilege of American citizenship carries with it an obligation to share in the preservation of the Nation. Graduates who have completed their ROTC requirements are commissioned 2nd Lieutenants in either the Reserves or, if they are qualified and request it, in the Regular Army.

The ROTC curriculum as offered at Dickinson is primarily designed to train young men in leadership and to prepare them for positions of responsibility and authority, initially in the military, and subsequently in their civilian pursuits. The course endeavors to develop and strengthen individual character by stressing such moral and spiritual values as patriotism, loyalty, discipline, honor, personal integrity, orderliness, and service to country and community.

Participation in the course at Dickinson is voluntary. Once accepted into the program, however, students are required to complete the two-year Basic Course (Freshman and Sophomore); and if they apply to continue and are accepted into the Advanced Course, they are required to complete the two upper division years (Junior and Senior) leading to a Commission. (For information concerning subjects taught, refer to "Military Science" under Courses of Instruction in Section III of this BULLETIN.)

Veterans may, upon application and with the approval of the Professor of Military Science and Tactics, be admitted to the ROTC program with advanced standing.

Students in the ROTC program are furnished complete uniforms and military text books at government expense. Individually tailored U.S.

Army Officer uniforms are issued to all regularly enrolled Advanced Course students, and these become the property of the students when they are commissioned.

Advanced Course students receive pay at the rate of approximately \$27.00 a month during their Junior and Senior years. These students are required to attend an Army Summer Camp for six weeks—normally between their Junior and Senior years. During the camp period they are furnished equipment, clothing, food, and medical care and receive approximately \$125.00 in pay. They also receive a monetary travel allowance to and from camp.

Students accepted in the Corps are, upon signing a draft-deferment agreement, deferred from active military service under the provisions of the Selective Service Act of 1948 for the duration of their enrollment in the ROTC program.

Completion of the Advanced Course of instruction and graduation from College qualifies an individual for appointment as a Second Lieutenant in the United States Army Reserve. Following completion of his education, including certain recognized graduate work if desired, a Commissioned Graduate is required to honor his Military Service obligation by serving 6 months (or 2 years) on Active Duty as an Officer with the Regular Army. An outstanding graduate who desires to make the Army his career may apply for a direct Commission in the Regular Army.

SUMMER SCHOOL

The College offers a summer program consisting of two terms. A student may obtain a maximum of twelve college credits applicable to his degree requirements at Dickinson College or acceptable for transfer credit at other academic institutions. In addition to the traditional academic subjects, the College provides in its summer programs certain specialized offerings of distinctive character as set forth in the separate summer bulletin. Copies of this bulletin may be obtained from the Dean of Admission.

THE DICKINSON COLLEGE ADULT EDUCATION PLAN

As a community service, Dickinson College provides each fall and spring a program of noncredit evening courses with a cultural or vocational focus. While generally ten weeks in duration, these courses vary

according to the special interests of the individuals or groups served. For announcements of the courses in any specific series inquiries may be addressed to the Director, Adult Education Plan.

STUDY ABROAD

Students desiring to take a year's work abroad may be granted credit for this work provided it is approved *in advance* by the Dean of the College and the student presents a satisfactory certificate of accomplishment. This plan is available only to the student who enters the college not later than the beginning of his sophomore year.

LECTURESHIPS

The following lectureships are either endowed or otherwise provided for:

THE JAMES HENRY MORGAN LECTURES. This lectureship "in the Classics and in College Teaching" is endowed by funds set aside in 1936 by the Board of Trustees in grateful appreciation of the distinguished services of the late James Henry Morgan of the Class of 1878: Professor of Greek, 1884-1914; Dean, 1903-1914; President, 1914-1928, 1931-1932, 1933-1934.

THE BOYD LEE SPAHR LECTURES IN AMERICANA. This lectureship was established in 1947 "in recognition of the importance of Dickinson College and its graduates in the large history of American Culture," and was named in honor of Boyd Lee Spahr, A.M., LL.D., D.C.L., of the Class of 1900, in grateful appreciation of his continuous interest in the Dickinson College Library and of his numerous contributions to its historical collections.

THE GLOVER MEMORIAL LECTURES. This lectureship "in Science," was established in 1958 in memory of John Glover of New Castle on Tyne, England, the inventor of the "Glover Tower," and of his son and grandson, Henry and Lester Glover, by Dr. and Mrs. John D. Yeagley of York, Pennsylvania.

THE REPRESENTATIVE PREACHER SERIES. This lectureship brings to the college campus, as an important part of Chapel Worship Services, outstanding American preachers of all faiths.

Curriculum

THE College offers two parallel courses in the Liberal Arts and Sciences leading to the degrees of Bachelor of Arts and Bachelor of Science.

A. REQUIREMENTS FOR GRADUATION

1. One hundred and twenty-four semester hours of academic work satisfactorily completed; an average of at least 1.75 in all courses taken at Dickinson College.
2. Completion of the required courses and satisfaction of the requirements for distribution and fields of concentration.
3. Seven semesters of chapel attendance.
4. Four semester hours of Physical Education. This requirement may be satisfied by the completion of two years of Military Science.
5. A minimum of 60 semester hours of course work in residence, including at least 24 of the 30 hours immediately preceding graduation. (Work completed under such cooperative programs of study as the College-Law School Program, the binary engineering program, and the Washington Semester shall be construed as work in residence.)
6. The Institutional Testing program of the Graduate Record Examinations.

B. REQUIRED COURSES

1. English 1-2 or English 2a.
2. For the Degree of Bachelor of Arts, Social Science 11-12. The Dean of the College in consultation with the adviser may set this requirement aside in the cases of particular students who provide evidence acceptable to the Dean that they have had educational experiences in one or more of the social sciences substantially equivalent to that offered in Social Science 11-12. When any student is relieved of this requirement the Dean of the College shall notify the student of the fact in writing and send a copy of the notification to the Registrar and to the student's Adviser.

3. For the Degree of Bachelor of Science, Mathematics 1-2, or Mathematics 3, 12, or Mathematics 5-6.

4. Language Requirements:

a. A candidate for a degree is required to complete work in a foreign language, classical or modern, through the intermediate level. A degree candidate whose native tongue is not English may be relieved of this requirement by action of the Foreign Students Committee and the Dean of the College. In such cases the Dean of the College shall notify the student of the fact in writing and send a copy of the notification to the Registrar and to the student's adviser.

b. Any student entering a course in a foreign language which he has studied for two or more years in a secondary school must take a placement examination. A College Entrance Examination Board test will satisfy this requirement.

c. Entering freshmen who desire to continue the study of a modern foreign language which they have already studied for a minimum of two years shall be placed in the appropriate college course on the basis of scores achieved on the Cooperative Placement Test, as follows:

(1) Students who score less than 50 on the test shall be required to enter the elementary course, numbered 1-2.

(2) Students who score between 50 and 54 (especially those who have not had courses in the language for some time prior to the test) will be encouraged to enroll in the intermediate course, numbered 11-12. Upon the recommendation of the instructor and with the concurrence of the student's Adviser, a student who has scored between 50 and 54 and has elected the intermediate course will be given the privilege of dropping back, without penalty, to the elementary course within four weeks if satisfactory progress is not maintained in the intermediate course.

(3) Students who score between 55 and 70 shall be required to enter the intermediate course, numbered 11-12.

(4) Students who score over 70 will be encouraged to enroll in either one of the appropriate advanced courses, numbered 31, 32 and 33, 34. Upon the recommendation of the instructor and

with concurrence of the student's Adviser, a student who has scored over 70 and has elected either one of the advanced courses will be given the privilege of dropping back, without penalty, to the intermediate course within four weeks if satisfactory progress is not maintained in the advanced program.

C. REQUIREMENTS FOR DISTRIBUTION

1. Candidates for either the degree of Bachelor of Arts or Bachelor of Science must satisfy the requirements for distribution (in courses numbered above 10) as follows:

- (A) Two semester courses in literature totaling not less than five credit hours in the following subject areas: English, French, German, Greek, Latin, Spanish.
- (B) Three semester courses totaling not less than seven credit hours in the following subject areas: Economics, History, Political Science, Sociology, Social Science.
- (C) Two semester courses totaling not less than five credit hours: one course in Philosophy or Religion, one course in Education or Psychology.
- (D) One semester course totaling not less than two credit hours in the following subject areas: Dramatic Arts, Fine Arts, Music, Speech.
- (E) One course in a laboratory science: Biology 11-12 or 23-24; Chemistry 11-12; Geology 11-12; Physics 11-12; or Physical Science 13-14.

D. REQUIREMENTS FOR FIELDS OF CONCENTRATION

1. The fields of concentration consist of a major and a minor.
 - a. A major consists of 30-32 credit hours of academic work in the major field as specified by the chairman of the department concerned (24 credit hours in Mathematics).
 - b. A minor consists of 18-20 credit hours of academic work in another field as specified by the chairman of the department concerned

(12 credit hours in Mathematics); or in a program of studies, known as an interdepartmental minor, to be taken in two or more departments other than the major department, *as approved in advance* by the student's major Adviser. A copy of the student's interdepartmental minor program shall be forwarded by the Adviser to the Registrar.

2. The fields of concentration must be chosen prior to the end of the second year.

3. Acceptance of the student as a major is determined by the chairman of the department concerned, who then becomes the accepted student's Adviser.

4. A student who is not accepted for a major field of concentration at the end of his sophomore year will be granted an additional semester in which to qualify. If at the end of this additional semester he has still not been accepted, he will be required to withdraw from college without the privilege of readmission.

5. Only courses numbered above 10 will be accepted in satisfaction of the requirements of a field of concentration. A course may not be counted for both the major and the minor, nor may any part of the work taken in the student's major department be counted towards the fulfilment of the minor except in those instances in which a department offers two or more related but distinct areas of study.

6. Candidates for the degree of Bachelor of Science are required to select a major in Biology, Chemistry, Geology, Mathematics, or Physics*, and complete 12 additional semester hours of work in courses numbered above 10 in one or more of the other four science departments.

E. SCHEDULE

1. FRESHMEN AND SOPHOMORE YEARS:

a. The normal academic load for freshmen and sophomores is 30-36 semester hours.

b. The courses taken during the freshmen and sophomore years are to be so selected that at the end of his sophomore year a student will

* Candidates for the degree of Bachelor of Arts may also major in these fields.

have completed all of the required courses and a reasonable number of the requirements for distribution. In addition the courses elected should be preparatory to the student's expected fields of concentration.

c. The courses open to freshmen as electives are listed below (see the detailed course descriptions for a brief discussion of course contents and for information concerning additional courses open to sophomores):

ELECTIVES OPEN TO FRESHMEN

Art	.....11, (12), 31-(32)
Biology	.....11-(12), and (with the permission of the instructor) (32), (34)
Chemistry	.....11-(12)
Dramatic Arts	...11, (12), 21, (32)
Education	.....(with the permission of the instructor) 21
English	.....(for students who have successfully completed 2a) (15), (18), (35)
Geology	.....11-(12)
History	.....11-(12), 13, (14)
Mathematics	.....1-(2), 5-(6), 3, (12) (a year of mathematics is re- quired of candidates for the degree of Bachelor of Science; students qualified to omit 3 may take 29
Military Science	..1-(2)
Music	.....13, (14), 15, (16)
Philosophy	.....11
Physical Science	..13-(14) (with the permission of the Dean of Admis- sion)
Psychology	.....11, (14)
Public Speaking	..23, (24)
Religion	.....15, (16)
Social Science	....11-(12) (required of candidates for the degree of Bachelor of Arts)
Sociology	.....60, and (with the permission of the instructor) 32

2. JUNIOR AND SENIOR YEARS:

a. The normal academic load for juniors and seniors is 32-34 semester hours.

b. Students must register in their junior year for any of the required courses which they have not completed satisfactorily.

c. In addition, courses must be elected to meet the requirements for distribution and fields of concentration.

d. The remainder of the student's schedule consists of free electives as necessary to make up the total academic load of 124 semester hours.

F. INDEPENDENT STUDIES AND DEPARTMENTAL HONORS

In each major field of concentration there is provided an Independent Studies program intended to give the student an opportunity for a self-directed experience, an introduction to research, and practice in reporting the results of his investigation. Programs in an area which embraces more than one department may be arranged by the Dean of the College in consultation with the chairmen of the departments concerned.

1. The Independent Studies program shall be open to those seniors whose work in the department or field of concentration has averaged at least 3.25 *and* whose cumulative average for all work at the college is at least 2.50 at the middle of the junior year.

2. An essential element of the work is a written report, giving the results of the student's investigations, due one (1) month prior to the student's graduation.

3. High quality is expected both in the independent study and in the report. Work of distinction, as determined by the department, shall receive a grade of A and the student shall be graduated "with honors" in his field of concentration or, in the case of interdepartmental honors, "with honors" in interdepartmental studies with the specific fields named. Record of this distinction will appear on the diploma and on all transcripts.

4. If a student's work fails to meet the standards for graduation with honors, he shall receive a letter grade of B or below consistent with the quality of his work.

5. Each department will determine whether the hours credit (6) for the course of Independent Studies shall count toward satisfaction of requirements for the major.

G. RESPONSIBILITY OF STUDENTS AND PARENTS

It is understood that all Rules and Regulations of the College are accepted by the parents and guardians of Dickinson College students, as well as by the students themselves.

H. SELECTED ACADEMIC REGULATIONS*

1. RESPONSIBILITY OF STUDENT:

Responsibility rests with the student for the election of such courses as will satisfy the requirements of the College for graduation.

2. CHANGES IN REGULATIONS:

The College reserves the right to change its regulations, courses of study, and schedule of fees, without previous notice to the student.

3. CREDIT FOR COURSE WORK:

Credit for courses is based on the assumption that two hours of study accompany each period of recitation or lecture.

4. CREDIT FOR WORK AT OTHER COLLEGES:

a. The College may grant credit for work completed at other accredited colleges on previous arrangement with the chairman of the appropriate department, the Adviser, and the Dean of the College. To receive credit the work must be at least C or its equivalent quality credit value. This work will count as hours credit toward graduation but the grade will not be used in computing the average for graduation.

b. The College will accept no more than 12 credits for any one summer period and no more than 18 credits for summer study at other institutions.

5. EFFECT OF REPEATED ABSENCE:

No academic credit will be given for a course in which the student has been absent more than the equivalent of six weeks in a semester.

6. REGULATIONS GOVERNING GRADES:

a. Grades shall be reported as:

* More detailed regulations are available in a separate pamphlet.

A	(Excellent)	F	(Failing)
B	(Above Average)	S	(Satisfactory)
C	(Average)	U	(Unsatisfactory)
D	(Below Average)	I	(Incomplete)

7. AVERAGES:

a. *Computation of Averages:*

(1) In the computation of averages the following scale of Quality Credit Points will apply:

<i>Grade</i>	<i>Points</i>
A	4
B	3
C	2
D	1
F	0

(2) A student's average shall be computed on the basis of all academic work which he has taken at Dickinson College during any specific period.

The average shall be computed by summing all the products obtained by multiplying the earned quality credit points by their respective semester hours, and dividing that total by the sum of the semester hours of all academic work taken, this result to be carried to two decimal places.

b. *Application of Averages:*(1) *Minimum Academic Standards:*

A regular student is required to meet the following minimum standards of academic quality during his course:

- (a) Freshman: An average of 1.25
- (b) Sophomore: An average of 1.75 for the year or a 1.75 2-year average
- (c) Junior: An average of 2.00 for the year or a 1.75 3-year average
- (d) Senior (to be graduated): An average of 1.75 in all courses taken at Dickinson College

A student who fails to meet the minimum standard for his class will be required to withdraw. He may apply for readmission after attending an accredited college elsewhere for one regular semester (not a summer session) and meeting the following minimum specifications: completion of a program consisting of at least 15 hours in courses approved in advance by the Dean of the College and the attainment of an average of at least 2.25, with no grade lower than "C." Military service, or satisfactory employment, may be substituted for such scholastic experience. If after reinstatement the student fails to meet the minimum standard for his class he will be required to withdraw and will be barred from readmission.

The Freshman, Sophomore, and Junior years are interpreted as the first, second, and third College Years of attendance as a regular student. (The College Year extends from the opening of college in the fall to Commencement.)

In the case of a student entering Dickinson with advanced standing because of work done at other institutions, the Committee on Admission will determine his status as to class or year of attendance. In all other cases involving such irregularities as work done outside the Dickinson College Year, the Dean of the College will determine the student's class or year of attendance.

The Senior year is normally the fourth year of college attendance, but it may occur earlier or later. Specifically, a student meeting the quality standards is advanced to the Senior year at the end of the semester in which his total credit hours have reached 90. If this total has not been reached at the end of the second semester of his Junior year, he will be allowed one additional semester as a Junior. If he cannot enter the Senior year after such additional Junior semester, he will be required to withdraw.

A student is expected to be graduated at the end of his Senior year. If he has not satisfied the requirements for graduation at the end of the second semester of his Senior year, he will be allowed one additional semester as a Senior. If he cannot be graduated at the end of such additional Senior semester, his status will be considered by the Faculty.

(2) *Honors Upon Graduation:*

a. A student who in his total program attains an average of at least 3.75 shall be awarded his degree *summa cum laude*.

b. A student who in his total program attains an average of 3.50 but less than 3.75 shall be awarded his degree *magna cum laude*.

c. A student who in his total program attains an average of at least 3.25 but less than 3.50 shall be awarded his degree *cum laude*.

8. CREDIT, MILITARY SERVICE AND DRAFT:

a. *Credit for Military Service:*

a. Credit will be given toward the College requirement of four hours in Physical Education on the basis of two hours of credit for each year of military service.

b. *Credit for Men Drafted:*

In order to assure the largest possible credit to male students who are called to active duty in the armed forces before the end of the semester, Dickinson College is prepared to give credit for work done, on the following basis:

(1) Immediately upon receiving notification of induction into active service the student must notify his Adviser, who will arrange for tests to be given in the subjects taken by the student. Upon receiving a passing grade, a student will be given credit toward graduation in the following manner:

(2) For the completion of two weeks in the semester, two semester hours of credit will be given; three weeks, three semester hours of credit, etc. If the student has completed eight weeks or more, he may, provided his average is 1.75 or better, be given full credit for the semester (*i. e.*, if the student receives a general average of 1.75 he will receive a full semester's credit for each course in which he receives a passing grade). It will be essential, however, for the students to do good classroom work to be eligible for credit. Students with incomplete work in any course will not be eligible for credits under this plan.

III
Courses of Instruction

Courses of Instruction

FOR all courses, except where otherwise indicated, the number of hours of academic credit per semester equals the number of hours of classroom work per week.

The classification of courses is as follows:

1. A parenthesis around a course number indicates that the course is given in the spring semester.

2. When two course numbers, followed by a single description, are separated by a comma—either course may be taken without the other, though the two are normally taken together as a year-course.

3. When two course numbers, followed by a single description, are separated by a comma and preceded by an *—the first course may be taken without the second, though the two are normally taken together as a year-course. The first course, however, is a prerequisite for the second.

4. When two course numbers, followed by a single description, are separated by a hyphen—the work of the two semesters constitutes an integral, indivisible year-course in which credit will not be given for the work of a single semester.

The order in which courses may be elected is determined by the prerequisites stated under the course descriptions. Courses designated by words such as "Sophomore course," "Junior course," may not be taken earlier than the year indicated. They may, of course, be taken at a later date. An exception to this rule may be made by the chairman of the appropriate department for students of high scholastic ability or advanced standing.

BIOLOGY

PROFESSOR HERBER

ASSISTANT PROFESSORS McDONALD AND OGREN

MRS. McDONALD

The general course in biology offers the liberal arts student a comprehensive view of the properties and principles of living matter, while at

the same time providing a groundwork in the techniques of experimental science. Upon this foundation, the advanced courses build a detailed analysis of the structures and functions of the organism in plant and animal life.

11-(12). GENERAL BIOLOGY 8 credit hours

A study of biological principles with special emphasis on the physiology of animals and plants. Recent experiments in physiology, embryology, bacteriology and genetics are discussed. Three hours classroom and two hours laboratory per week. *Freshman course.*

*23, (24). INVERTEBRATE AND VERTEBRATE ZOOLOGY 4 or 8 credit hours

A study of the principles of structure, classification, ecology and evolution of non-vertebrate animals the first semester and chordates the second semester. Two hours class room and four hours laboratory per week.

Sophomore course. Prerequisite: 11-(12).

(32). MAMMALIAN ANATOMY 3 credit hours

A study of mammals, particularly the cat. One hour classroom and four hours laboratory per week.

Sophomore course. Open to freshmen with the permission of the instructor. Prerequisite: 11 or 23.

(34). MICROBIOLOGY 3 credit hours

A discussion of the taxonomy, physiology and heredity of bacteria, molds and viruses, with laboratory projects designed to provide technical competence in handling microorganisms. Two hours classroom and two hours laboratory per week.

Sophomore course. Open to freshmen with the permission of the instructor. Prerequisite 11 or 23.

41. HISTOLOGY 3 credit hours

A study of mammalian organs and tissues with an introduction to the techniques of fixing, sectioning and staining. One hour classroom and four hours laboratory per week.

Sophomore course. Prerequisite: 11-(12).

(44). EMBRYOLOGY 3 credit hours

The study of the development of animals, using the experimental approach. Two hours classroom and two hours laboratory per week.

Sophomore course. Prerequisite: 11 or 23.

45. PHYSIOLOGY

3 credit hours

A study of the physical and chemical basis of biological activities. The laboratory includes exercises in the operation of stimulating and recording apparatus and experiments in biochemistry and enzymology. Two hours classroom and two hours laboratory per week.

Sophomore course. Prerequisite: 11 or 23. Chemistry 11-(12) is strongly recommended.

51. GENETICS

4 credit hours

A study of the principles of heredity and the impact of these principles in population dynamics, evolution and human society. The laboratory projects are designed to acquaint the student with modern techniques for conducting genetic experiments with living organisms. Two hours classroom and four hours laboratory per week.

Sophomore course. Prerequisite: 11 or 23.

53. PARASITOLOGY

3 credit hours

A study of parasites in relation to disease; their life histories and geographical distribution. Two hours classroom and two hours laboratory per week.

Sophomore course. Prerequisite: 11-(12) or 23-(24).

(54). FIELD BOTANY

2 credit hours

Lecture, a study of the major factors in distinguishing families and species of plants; the laboratory work consists of fieldwork in identifying and collecting twigs of trees in winter and flowers in spring. One hour classroom and two hours laboratory per week.

Sophomore course. Prerequisite: 11-(12).

81. (82). SPECIAL PROBLEMS

1 or 2 credit hours

Laboratory work, research aspect emphasized. Topics are assigned for investigation.

Junior course. Open only to students majoring in biology.

92. SEMINAR IN GREAT IDEAS OF BIOLOGY

2 credit hours

A reading and conference course.

Junior course. Open only to students majoring in biology.

101-(102). HONORS COURSE

6 credit hours

Senior course. See index.

Major: 30 semester hours, including Biology 11-(12). Chemistry 11-(12) is strongly recommended and Chemistry 51-(52) may be counted toward this requirement.

Minor: 18 semester hours, including Biology 11-(12).

CHEMISTRY

PROFESSOR ROGERS
ASSOCIATE PROFESSORS ZIEGLER, GLEIM, AND NAFF
ADJUNCT ASSISTANT PROFESSOR OLDENBURG,
MRS. NAFF AND MRS. OLIN

The work in General Inorganic Chemistry is planned to meet the needs of the student for whom this is the terminal course in chemistry, as well as for the student who plans to take additional courses in the department.

The advanced courses are planned primarily for students who are preparing for medicine, teaching, industry and graduate work.

Professional Training in Chemistry

Dickinson College is included in the list of institutions approved for undergraduate training in chemistry by the American Chemical Society. The ACS minimum requirements in chemistry include four basic year-courses in general chemistry, analytical chemistry, physical chemistry, and organic chemistry, together with at least one year of advanced work. Any deficiency in any of the basic courses is to be compensated for by a corresponding increase in a more advanced course. In addition, courses in physics, mathematics through integral calculus, a reading knowledge of German, a year of English composition, and the equivalent of a full semester devoted to the study of the humanities are required.

11-(12). GENERAL CHEMISTRY

8 credit hours

The material in the text is supplemented by demonstrations and explanations. Students are given considerable practice in solving problems. Three hours classroom and two hours laboratory per week.

Freshman course.

27. QUALITATIVE ANALYSIS

4 credit hours

A study of the common metal ions and acids or anions, and schemes of analysis. Two hours classroom and four hours laboratory per week.

Sophomore course. Prerequisite: 11-(12).

(34). ELEMENTARY PHYSICAL CHEMISTRY

2 credit hours

Lecture course, primarily for pre-medical students. A study of structure, solutions, equilibrium, conductance, electro-motive force, pH, colloids, and related topics.

Sophomore course. Prerequisite: 27.

51-(52). ORGANIC CHEMISTRY

8 credit hours

The course is designed to stress the fundamental principles of organic chemistry. Emphasis is placed on the properties of functional groups and the relation of structure to chemical reactivity. Three hours classroom and four hours laboratory per week.

Junior course. Prerequisite: 27 and 62.

*55, (56). THEORETICAL ORGANIC CHEMISTRY

2 or 4 credit hours

Discussion of experimental evidence for reaction mechanisms, methods by which these mechanisms are formulated, and correlation of organic reactions on basis of mechanisms. The subject matter is designed to develop a student to the point where he can profitably use the modern literature and recently published advanced texts.

Senior course. Prerequisite: 51-(52).

(62). QUANTITATIVE ANALYSIS

various

Devoted largely to the principles and methods of volumetric and gravimetric analysis. The laboratory program is flexible, and latitude is allowed students manifesting interest and ability. Semester hours of credit depend upon the number of hours of laboratory selected by the student. The minimum offering is two credit hours for four hours of laboratory per week. Prospective chemists should plan to complete a total of six credit hours of laboratory work in quantitative analysis by the end of the junior year. Two hours classroom and at least four hours laboratory per week.

Sophomore course. Prerequisite: 27.

63-(64). ADVANCED QUANTITATIVE ANALYSIS

6 credit hours

Advanced analysis, with emphasis upon instrumental methods. One hour classroom and four hours laboratory per week.

Senior course. Prerequisite: (62) and three years of college chemistry.

81-(82). PHYSICAL CHEMISTRY

8 credit hours

The kinetic theory of gases, thermodynamics, solutions, equilibrium, electrochemistry, colloids, the structure of the atom, and related topics. Determinations of molecular weight, density, viscosity, refractive index, surface tension, solubility, transition points, equilibrium constants, conductance, electromotive forces. Additional experiments are performed. Three hours classroom and three hours laboratory per week.

Senior course. Prerequisite: 51-(52), (62), integral calculus, and consent of the instructor.

83-(84). SPECIAL PROBLEMS

6 credit hours

Laboratory work, with research aspect emphasized. Topics are chosen for investigation.

Senior course. Prerequisite: permission of the departmental chairman.

91-(92). RESEARCH SEMINAR 2 credit hours

Literature searching, research planning and execution, interpretation, precision and accuracy, techniques, legal considerations, report writing.

Junior course. Prerequisite: permission of the departmental chairman.

101-(102). HONORS COURSE 6 credit hours

Senior course. See index.

Major: 30 semester hours including 11-(12), 27, 51-(52), and (62).

Minor: 18 semester hours including 11-(12).

CLASSICAL LANGUAGES AND LITERATURE

PROFESSORS SANDELS AND WING

ASSISTANT PROFESSOR FROGEN

The goal of the work in the Department of Classical Languages and Literature is to enable the student to read chosen portions of Greek and Latin Literature and to acquaint him with the cultural aspects of the Greek and Roman civilizations and their influence on the civilizations of the Western world.

*Greek*1-(2). FIRST YEAR GREEK 6 credit hours

Emphasis on the fundamentals of Greek grammar and the study of vocabulary.

11-(12). SECOND YEAR GREEK 6 credit hours

Completion of the study of grammar. Readings in Attic prose and, in the second semester, the New Testament.

Prerequisite: 1-(2), or the equivalent.

21, (22). SURVEY OF GREEK LITERATURE 3 or 6 credit hours

Reading of representative Greek authors, both prose and poetry. Supplementary readings from Greek literature in English translations.

Prerequisite: Greek 11-(12) with a grade of at least C.

Minor: 18 semester hours, including Greek 11-(12), 21, (22), and History 21, (22).

*Latin*1-(2). FIRST YEAR LATIN 6 credit hours

Drill in the fundamentals of Latin grammar and vocabulary. Stress is laid on the study of the Latin background of the English language.

- 11-(12). SECOND YEAR LATIN 6 credit hours
 Further study of grammar and vocabulary. Readings from Latin prose. Study of public and private life of the Romans. Stress is laid on the study of the Latin background of the English language.
Prerequisite: 1-(2), or the equivalent.
21. ROMAN HISTORIANS 3 credit hours
 Readings from representative Roman historians, with particular emphasis on Livy. Parallel readings in Roman history.
Prerequisite: 11-(12) with a grade of at least C.
- (22). VIRGIL 3 credit hours
 Selections from the Aeneid. Virgil's life and literary influence.
Prerequisite: 11-(12) with a grade of at least C.
31. LATIN LYRIC POETRY 3 credit hours
 Horace, Odes and Epodes; Catullus. Life and literature of the Augustan Age.
Prerequisite: 21, (22) with a grade of at least C.
- (32). CICERO 3 credit hours
 Orations and some essays.
Prerequisite: 21, (22) with a grade of at least C.
- *33, (34). PROSE COMPOSITION 3 or 6 credit hours
 Practice in both oral and written composition.
Prerequisite: 11-(12) with a grade of at least C.
41. ROMAN SATIRE 3 credit hours
 Horace, Juvenal, and Petronius. Origin and development of the Roman satire; study of Roman social life.
Prerequisite: 21, (22) with a grade of at least C.
- (42). CICERO: LETTERS 3 credit hours
 Life and character of Cicero as revealed in his letters. Political and social conditions of his Age.
Prerequisite: 21, (22) with a grade of at least C.
51. PLAUTUS AND TERENCE 3 credit hours
 Reading of some of the most important plays. The ancient theatre.
Not to be given in 1959-60. Prerequisite: 21, (22) with a grade of at least C.

52. ROMAN PHILOSOPHY 3 credit hours

Selections from Lucretius, Cicero, and Seneca.

Not to be given in 1959-60. Prerequisite: 21, (22) with a grade of at least C.

101-(102). HONORS COURSE 6 credit hours

See Index.

Major: 30 semester hours, including 11-(12) and 21, (22). History 23, (24) may be counted toward this requirement.

Minor: 18 semester hours, including 11-(12) and 21, (22). History 23, (24) may be counted toward this requirement.

DRAMATIC ARTS

MR. BRUBAKER

The courses in Dramatic Arts are open to all students. While no major or minor is offered, by combining these courses with the offerings of the Department of English in dramatic literature, the student may receive a thorough background in the field.

In addition to the course offerings, an extra-curricular program sponsored by the college gives all students an opportunity for practical experience in the Dramatic Arts.

*11, (12). ACTING AND DIRECTING 3 or 6 credit hours

First semester: A laboratory course in acting, with a study of the principles and theories of acting combined with practical exercises. Second semester: A laboratory course in directing, as above, the emphasis on the director's responsibility for performance. One hour classroom and four hours laboratory per week.

Freshman course.

21. STAGECRAFT 3 credit hours

A laboratory course in technical production, with emphasis on class and individual projects related to the various aspects of stagecraft. Two hours of classroom and two hours of laboratory per week.

Freshman course.

(32). HISTORY OF THE THEATRE 3 credit hours

A study of the physical theatre, from Greek to modern times, of the influence of theatres upon playwrights and of playwriting upon theatres, and of the major trends and styles in playwriting and in production.

Freshman course.

ECONOMICS

PROFESSORS NEWMAN, PRINZ, AND PRENTICE*

LECTURER YAVERBAUM

ASSISTANT PROFESSOR THOMSON

MR. HOUSTON

The Department of Economics offers courses designed to give the student a knowledge of the essential facts and theories basic to the free enterprise and other economic systems of the world today. A student majoring in the field may obtain a background for business and the prerequisites for graduate study in business, business administration, economics, and other allied fields. Other students will find the various courses complementary to their specialized programs in political science, sociology, history, and the like.

12. ECONOMICS OF CONSUMPTION 3 credit hours

A study of consumption and its relation to the national income, including analysis of major factors in the consumer expenditure patterns, such as housing, personal saving, medical care, social security; and the role of government in safe-guarding consumer interests. Consideration is also given to such consumer institutions as cooperatives, consumer research organizations, credit unions, et cetera.

Sophomore course. Not open to students who have credit for 21-(22).

15 or (15). ECONOMIC GEOGRAPHY 3 credit hours

The main geographic regions of the world compared with respect to their climate, natural resources, main lines of agricultural and industrial production, as a basis for the understanding of world trade and international economic policies.

Sophomore course.

21-(22). PRINCIPLES OF ECONOMICS 6 credit hours

Designed to enable the student to appraise intelligently contemporary economic problems. Emphasis is placed upon the structure of modern markets—production and pricing; the development of business organizations and related institutions; the banking system; national income, its determination and its distribution into wages, rents, interest, and profits; public finance; international trade; and comparative economic systems.

Sophomore course.

*29, (30). INTRODUCTORY ACCOUNTING 3 or 6 credit hours

A course designed to give the student a general knowledge of accounting as a method of economic and financial analysis and interpretation.

Sophomore course.

* Spring Semester 1959.

35 or (35). BUSINESS ORGANIZATION AND FINANCE 3 credit hours

The forms of business enterprise compared in their legal status and economic importance; dominance of the corporate form of private enterprise; problems of administration and finance; investors' rights and state control.

Junior course. Prerequisite: 21.

(44). PUBLIC FINANCE 3 credit hours

A survey of the field of government finance—national, state and local. Trends and purposes in governmental income and expenditures; analysis of deficit financing and taxation theory and practice; the relation of these aspects of finance to credit and price structures, business administration, and the business cycle as a factor in determining public policy.

Junior course. Prerequisite: 21-(22).

47. MONEY AND BANKING 3 credit hours

A study of the role of money and credit in the United States economy. This includes an examination of the functions of money, the commercial banking system, the Federal Reserve System, and miscellaneous domestic and international financial institutions. Various theories of money will be studied. The monetary and financial policies and practices of the Federal Reserve System and the United States government will be analyzed and appraised.

Junior course. Prerequisite: 21-(22).

48. FOREIGN TRADE 3 credit hours

The past and present significance of international trade; its theory and mechanism; its regulation by tariffs, quotas, exchange controls, government monopolies; its connection with foreign investment, foreign aid, and foreign and domestic policies.

Junior course. Prerequisite: 21-(22).

(49). INTERNATIONAL ECONOMICS 3 credit hours

This course, which supplements the one on foreign trade, deals with such present-day problems as international cartels, state trading, foreign aid, development of backward areas, and the constitution and functions of such organizations as the International Monetary Fund, the World Bank, European Payments Union, and G.A.T.T.

Junior course. Prerequisite: 21-(22).

(50). SOCIAL CONTROL OF BUSINESS 3 credit hours

Analysis of the control of monopoly in American industry. Particular problems of defense, agriculture, and public utilities as well as basing-point systems, patenting and licensing agreements, delivered pricing, et cetera, are considered. Over-all emphasis placed upon the interpretation and enforcement of the anti-trust laws.

Junior course. Prerequisite: 21-(22).

53. THE ECONOMICS OF LABOR

3 credit hours

A survey of the development and regulation of trade unions in the United States with special reference to the institutional and theoretical background of collective bargaining wherein wages, hours, and other conditions of employment are determined.

Junior course. Prerequisite: 21-(22).

*61, (62). INTERMEDIATE ACCOUNTING

3 or 6 credit hours

A more advanced treatment of the material in Economics 29, (30). Among the topics considered are basic accounting theory; partnership and corporate accounting; treatment of cash, receivables, inventories, tangible and intangible fixed assets; fund and reserve accounting; comparative statements; ratio analysis.

Junior course. Prerequisite: 21-(22) and 29, (30).

71. ECONOMIC HISTORY OF THE UNITED STATES

3 credit hours

The evolution of agriculture, industry, commerce, finance, and transportation from Colonial times to the present—viewed against the background of natural environments and changing social and governmental institutions.

Junior course. Prerequisite: 21-(22).

*73, (74). HISTORY OF ECONOMIC THOUGHT

3 or 6 credit hours

A critical presentation of the significant economic theories from the beginnings to the present time—viewed as an expression of the individuality of the great thinkers and of their historical background.

Junior course. Prerequisite: 21-(22).

(75). BUSINESS CYCLES

3 credit hours

A critical analysis of the history and causes of economic fluctuations, the main theories and the various measures designed to bring about greater economic stability, with emphasis on recent experience.

Junior course. Prerequisite: 21-(22) and 47.

76. CONTEMPORARY ECONOMIC SYSTEMS

3 credit hours

Capitalism, communism, fascism, and socialism compared as economic systems. Their ideology; their historical development in the principal countries; and their main present problems.

Junior course. Prerequisite: 21-(22).

(78). ECONOMIC THEORY

3 credit hours

A study of the major fields of modern economic theory. This will emphasize macro- and micro-economic problems while including such areas as institutional and welfare theories along with reference to econometrics, input and output analysis, and economic growth.

Junior course. Prerequisite: 21-(22).

93-(94). RESEARCH IN THE SOCIAL SCIENCES

6 credit hours

Senior course. See Social Science 93-(94).

95 or (95). SEMINAR

3 credit hours

Individual reading program and preparation of reports for class presentation and discussion. Each semester's work will center around a particular subject or area of economics.

Senior course. Prerequisite: Permission of departmental chairman.

101-(102). HONORS COURSE

6 credit hours

Senior course. See index.

Major: Thirty semester hours, including 21-(22), 29, 47 and 73-(74), and twelve hours from the following: 15, 30, 35, 44, 48, 49, 50, 53, 71, 75, 76, 78, 93-94, 95, 101-102. In addition, beginning with students entering in September 1959, Mathematics 1-(2) or 3, (12) and Mathematics 23-(24) will be required.

Minor: Eighteen semester hours, including 21-(22).

NOTE: Students who plan to make economics their major field of study should arrange to take Economics 21-(22) as early as possible, preferably in their sophomore year, in order to avoid election difficulties later. They should elect Economics 29 not later than the junior year. Students planning to do graduate work in economics are advised to elect Economics (78) and Mathematics 3, (12) and 15-(16).

EDUCATION AND PSYCHOLOGY

PROFESSORS JAMES AND GRAFFAM

ASSOCIATE PROFESSORS CLIMENHAGA AND MAYFIELD

ASSISTANT PROFESSORS H. WELLS, MOSES, AND SCOTT

MR. REAM

Education

The Department of Education offers undergraduate courses leading to the Provisional Secondary Teachers' Certificate. The Department provides the proper courses for certification in such states as Pennsylvania, New York, New Jersey, Maryland, and Delaware. It conceives as its dual function the preparation of teachers and the offering of certain courses in Education for the completion of the liberal arts requirement. A student who plans to teach in the secondary schools should have a conference with the Chairman of the Department before the sophomore year. The Department does not offer specific preparation for certification on the elementary level, but, through a combination of courses taken at Dickinson and at other institutions offering courses in elementary teaching, such certification can be achieved.

21 or (21). INTRODUCTION TO EDUCATION 3 credit hours

This course performs the two-fold function of a general introduction to the field of education and a systematic analysis of the basic principles involved in a constructive theory of education—aims, values, agencies, the curriculum, organization, practice—serviceable to the citizen and the teacher. Text, supplementary lectures, assigned readings.

Sophomore course. Also open to freshmen with permission of the instructor.

31 or (31). EDUCATIONAL PSYCHOLOGY 3 credit hours

Sophomore course. See Psychology 31.

33 or (33). PRINCIPLES AND METHODS OF TEACHING IN THE
SECONDARY SCHOOL 3 credit hours

This course is designed to acquaint the student with the best philosophic and scientific data in the solution of problems confronting the classroom teacher, with particular reference to the high school. Stress is laid upon the various types of learning and teaching, methods of organization and control, and the development of an effective classroom technique.

Junior course. Open to those who plan to teach. Prerequisite: Education 31.

35. HISTORY AND PHILOSOPHY OF EDUCATION 3 credit hours

Education as a social agency, with a background of the general history of civilization, constitutes the point of view of this course.

Junior course. Open to those who plan to teach.

(39). CURRICULUM 3 credit hours

The curriculums of junior and senior high schools form the basis of this course, with particular attention to the subject matter of the student's field of concentration. The contributions of educational philosophy, psychology, sociology, and history to a progressive adjustment in academic, cultural, and technical courses of study are evaluated, with stress on course construction and revision.

Junior course. Open to those who plan to teach.

43. EDUCATIONAL MEASUREMENT 2 credit hours

An introductory course seeking to interpret the general principles of educational measurement, with emphasis on such topics as: significance of the modern test movement; uses and abuses of tests; types of tests and scales; their validity; principles of selection and design; techniques of administering and scoring, tabulating and interpreting results.

Sophomore course. Prerequisite: Education 31.

(47). SPECIAL METHODS 1 credit hour

Special methods of teaching as applied to the specialized fields for which the student is preparing. Whenever possible the course is given by a member of the department in which the student has his major.

Junior course. To be elected along with Education 33.

51. VISUAL AND SENSORY TECHNIQUES 1 credit hour

A study of the visual and sensory techniques currently used in classroom procedure.
Senior course. Open only to ministerial students and to students who plan to teach.

(53). PRINCIPLES OF GUIDANCE 3 credit hours

A general introduction to basic principles of personnel administration for counselors of students.
Sophomore course.

61-(62). SUPERVISED PRACTICE TEACHING 6 credit hours

Permission to elect this course must be secured from the head of the department and will depend upon scholastic attainment, professional interest in teaching, evidence of a superior teaching personality in the student, and the opportunities available for his work in the nearby high schools. The College will endeavor to make convenient arrangements for the student who meets the requirements for practice teaching, but travel involved and hours of work are primarily the responsibility of the student.
Senior course. Prerequisite: Education 33 and permission of the departmental chairman. A laboratory fee of \$35 is charged for this course.

Minor: 18 semester hours in departmental course work.

NOTE: This department does not offer a major in Education. The student preparing to teach completes his major in another department of the College.

Psychology

The program in psychology is designed to give the student a sound foundation in psychological thought and an understanding of experimental and statistical evidence. Students planning to continue with graduate work in this field should schedule Psychology 11 in their freshman year and consult with the departmental chairman concerning a sequence of recommended courses.

11 or (11). INTRODUCTION TO PSYCHOLOGY 3 credit hours

This course is a prerequisite to all other courses offered in psychology.
Freshman course.

14 or (14). INTRODUCTION TO STATISTICAL METHODS IN
PSYCHOLOGY 3 credit hours

Presents basic descriptive and sampling statistics which underlie problems of experimental verification and mental measurements.
Freshman course. Prerequisite: 11.

17. MOTIVATION

3 credit hours

This course offers students an opportunity, through study, observation, and experimentation, to examine various theories of animal and human motivation.

Sophomore course. Prerequisite: 14.

21-(22). EXPERIMENTAL PSYCHOLOGY

8 credit hours

A systematic analysis of (1) the fundamental conditions and principles of learning, both animal and human, (2) experimental studies of the characteristics and measurement of discriminative processes and capacities, and (3) application of these principles to the problems of complex behavior. Two hours classroom and four hours laboratory per week.

Sophomore course. Prerequisite: (14).

23. PSYCHOLOGICAL EVALUATION

3 credit hours

An introduction to mental measurements presenting the principles of psychological testing. Stresses individual differences and includes practice in test administration.

Sophomore course. Not open to students with credit for 59 or 60. Prerequisite: (14).

27. MENTAL HEALTH AND PERSONAL ADJUSTMENT

3 credit hours

A course designed to acquaint the student with the principles of sound mental health as well as the social and family nature of the mental health problem.

Sophomore course. Not open to Psychology majors. Prerequisite: 11.

31 or (31). EDUCATIONAL PSYCHOLOGY

3 credit hours

An introduction to the psychology of learning for students interested in education. The attempt is made to develop a theory of learning and behavior in relation to the physical, social, and psychological development of the child and adolescent. The work of the classroom is supplemented by field study of pupil behavior in the public schools.

Sophomore course. Prerequisite: 11.

*37, (38). DEVELOPMENT PSYCHOLOGY

3 or 6 credit hours

Presents the principles of human development over man's life span. Emphasis is upon child and adolescent psychology.

Sophomore course. 37 not open to students with credit for 45; (38) not open to students with credit for 47. Prerequisite: 11.

39. PRINCIPLES OF COUNSELING

3 credit hours

A study of the theories and techniques of counseling with emphasis upon the interdependence of educational, vocational, and personal problems.

Sophomore course. Prerequisite: 11.

41. SOCIAL PSYCHOLOGY

3 credit hours

A study of the principles of psychology as they are related to the problems of society. The application of psychological principles to social behavior of individuals and groups.

Sophomore course. Prerequisite: (14).

49. INDUSTRIAL PSYCHOLOGY

3 credit hours

A discussion of principles of psychology as applied in American industry to such problems as selection, efficiency, evaluation and morale. Some attention is given to industrial uses of psychological tests. Text, lectures, discussions, assigned readings, and field trips.

Sophomore course. Prerequisites: 11 and (14).

*51, (52). HISTORY AND CURRENT THEORIES

3 or 6 credit hours

An examination and critical evaluation of the history and content of selected current theories in psychology will be made. Emphasis will be placed upon the influence of various types of theory upon contemporary psychological research.

Sophomore course. Prerequisite: 11.

55-(56). DYNAMICS OF BEHAVIOR

6 credit hours

This course is an analysis of human behavior. It aims at increasing awareness of inner factors that determine how one thinks, feels, and acts. It encourages a student to think about his behavior from dynamic points of view. A study of the origins and development of normal and abnormal personality.

Junior course. Prerequisite: (38).

(72). JUNIOR SEMINAR

3 credit hours

Students in this course will be given opportunity to examine specific problems intensively through individual projects.

Junior course. Prerequisite: 11 and permission of the departmental chairman.

*81, (82). SENIOR SEMINAR

3 or 6 credit hours

Readings, reports, and discussions will be employed in a careful examination of central problems of present-day psychology.

Senior course. Prerequisites: 11, (14), and permission of the departmental chairman.

101-(102). HONORS COURSE

6 credit hours

Senior course. See index.

Major: 30 semester hours in departmental course work. Psychology 11, 14, 21-(22), 23, and 81, (82) must be elected to receive departmental recommendation for graduate study. Certain courses in other departments may be applied toward the major field with prior written approval of the Chairman of the Department.

Minor: 18 credit hours in departmental course work.

ENGLISH

PROFESSORS SCHIFFMAN, NESS, SLOANE,* AND SCHECTER *
 ASSOCIATE PROFESSORS HORLACHER, WARLOW, AND BOWDEN
 ASSISTANT PROFESSORS MCGILL, WISHMEYER, AND BEATY
 MR. PATTINSON,** MR. HARTSHORN, MISS SWAIM AND MR. ANDREWS

The language and literature of the Anglo-American tradition are studied historically, by types, and in comparison with other arts and literatures. English majors should therefore take courses in art, music, philosophy and religion, history, classical and modern foreign languages and literatures; they should acquaint themselves with the best that has been thought and said and done in the world. In various ways superior students are enabled and encouraged to do advanced, independent work.

1-(2). ENGLISH COMPOSITION

6 credit hours

A study of the principles of grammar and rhetoric necessary for clear and vigorous written English. Frequent themes provide practice in the various kinds of expository writing. In the second semester, the student is also introduced to the study of literature. *Required of all freshmen. (But with the consent of the Chairman of the Department and the Dean of Admission, exceptionally well-prepared students may be excused from English 1. In its place they are required to take English 2a and are strongly urged to continue in the spring semester with English 11-12, 15, 18, or 35).*

Freshman course. This course is a prerequisite to all other courses in the English Department.

2a. ENGLISH COMPOSITION

3 credit hours

Freshman course. Open only to freshmen with advanced standing in English; these students normally elect English 11-12, 15, 18, or 35 in the second semester. Prerequisite: Permission of both the Chairman of the Department and the Dean of Admission.

11-(12). A SURVEY OF ENGLISH LITERATURE

6 credit hours

The growth of literary types and values against the background of history, from earliest times to the present. Intensive study of the major English poets, prose-writers, and dramatists, especially Chaucer, Spenser, Shakespeare, Bacon, Donne, Milton, Swift, Pope, Johnson and Boswell, Wordsworth, Keats, Browning, Arnold, Shaw, Yeats, and Eliot. *This course should be elected in the sophomore year by all students contemplating further work in English. Prospective English majors and minors are urged to elect History 43, (44) concurrently with this course.*

Sophomore course. Open to freshmen who have completed 2a.

* Refresher Leave of Absence 1958-1959.

** Leave of Absence 1958-1959.

15 or (15). THE ENGLISH NOVEL

3 credit hours

The development of the English novel from the late 16th to the mid-19th century, with emphasis on the major novelists. Collateral readings and reports. Defoe to Thackeray and Trollope.

Sophomore course. Open to freshmen who have completed 2a.

16 or (16). THE ENGLISH NOVEL

3 credit hours

The development of the English novel from the mid-19th to the early 20th century, with emphasis on the major novelists. Collateral readings and reports. The Brontës to Conrad, Bennett, and Wells.

Sophomore course.

17. ENGLISH DRAMA

3 credit hours

The development of English drama from the liturgical play to the late 18th century comedy of manners.

Sophomore course.

(18). MODERN DRAMA

3 credit hours

The contemporary theatre, with some attention to the influence of European writers since Ibsen upon modern playwriting and stagecraft.

Sophomore course. Open to freshmen who have completed 2a.

25 or (25). ADVANCED COMPOSITION

3 credit hours

An advanced course in the techniques of practical writing. Special attention is given to the development of ideas and their critical appraisal through exposition. *Required in the junior year of all students taking the combined College-Law School program.*

Junior course. Open to sophomores with the permission of the instructor.

(35). THE HISTORY AND STRUCTURE OF THE ENGLISH LANGUAGE

3 credit hours

The origins and growth of the English language from the earliest times to the present. Advanced English grammar and dynamics of vocabulary.

Sophomore course. Open to freshmen who have completed 2a.

37, (38). WORLD LITERATURE

3 or 6 credit hours

Readings in English translation from a selected group of literary masterpieces of particular significance to Western culture, notably: Homer, the Greek dramatists, Virgil, Dante, and Chaucer; Shakespeare, Moliere, Racine, Voltaire, Goethe, Dostoevsky, and Ibsen. Lectures by the instructor and other members of the Faculty.

Junior course.

41-(42). SHAKESPEARE 6 credit hours

The background and contemporary setting for an understanding of, and appreciation for, the works of William Shakespeare. The course includes the study of his principal dramatic works.

Junior course.

(44). CHAUCER 3 credit hours

A study of Chaucer and his century, with emphasis on *The Canterbury Tales* and *Troilus and Criseyde*.

Junior course. Prerequisite: 11-(12); but may be elected concurrently with (12) by sophomores who have a grade of B or better in 11.

45, (46). A SURVEY OF AMERICAN LITERATURE 3 or 6 credit hours

Literary trends in America from Puritan times to the present, with emphasis on the major 19th and 20th century writers.

Junior course. Prerequisite: 11-(12).

49. REPRESENTATIVE AMERICAN WRITERS 3 credit hours

The writers selected for intensive study vary from year to year. Generally they are chosen on the basis of some common principle or trend represented in their writing or time.

Junior course. Prerequisite: 11-(12).

53-(54). ENGLISH LITERATURE OF THE 17TH CENTURY 6 credit hours

First semester: A study of the important poets and prose-writers from the age of Donne and Jonson to the Restoration, with outside readings in the literature of the period. Second semester: A detailed study of the poetry and prose of John Milton.

Junior course. Prerequisite: 11-(12).

57, (58). ENGLISH LITERATURE OF THE 18TH CENTURY 3 or 6 credit hours

Representative English writers and tendencies of the neo-classical period. First semester: The Augustan period, with emphasis on Dryden, Swift, and Pope. Second semester: The age of Johnson and the beginnings of Romanticism.

*Junior course. Alternates with *61, (62). To be given in 1959-60. Prerequisite: 11-(12).*

*61, (62). ENGLISH LITERATURE OF THE 19TH CENTURY 3 or 6 credit hours

First semester: Major writers of the Romantic period. Second semester: Major writers of the Victorian period.

Junior course. Alternates with 57, (58). To be given in 1960-61. Prerequisite: 11-(12).

65, (66). CLASSICAL INFLUENCE IN ENGLISH LITERATURE

3 or 6 credit hours

First semester: Epic and lyric. Second semester: Satire and irony. The development of these forms is traced through Greek, Latin, and English literature, and the influence of the classical writers on the English is estimated.

Sophomore course. Not to be given in 1959-60.

67. TWENTIETH CENTURY FICTION

3 credit hours

A study of contemporary fiction based on a group of novels representative of English, American, and Continental achievements and trends.

Junior course. Open to sophomores with the permission of the instructor. It is recommended that this course be preceded by at least one semester's study of the English novel.

(70). TWENTIETH CENTURY AMERICAN AND BRITISH POETRY

3 credit hours

Important American and British poets (Yeats, Robinson, Frost, Pound, Eliot, Auden, and others) and poetic tendencies (symbolism, imagism, Georgianism, social consciousness, and the like). Readings for breadth in an anthology; readings for depth in separate volumes of one or two poets.

Junior course.

81, (82). CREATIVE WRITING

3 or 6 credit hours

An examination of the writer's art and of the student's own composition through group discussion and individual conferences. First semester: Short fiction. Second semester: One-act plays, with some attention to adaptations of dramatic form for radio, motion pictures, and television. Poetry by student request.

Junior course. Open to Sophomores with a grade of B, or better, in 1-(2).

91, (92). LITERARY CRITICISM

3 or 6 credit hours

An introduction to the works of the major critics. The course is a seminar for discussion of the great critics from Plato to T. S. Eliot. Each student undertakes a project in original criticism.

Junior course. Prerequisite: 11-(12) and an inclusive average of 2.75 or better.

95. JUNIOR SEMINAR: METHODS OF RESEARCH IN ENGLISH

1 credit hour

An introductory course in methods of literary research and in effective means of presenting the results of research.

Junior course. Open only to students majoring in English.

96. SENIOR SEMINAR

3 credit hours

Special problems in the study of literature. Individual research or creative writing projects.

Senior course. Open only to students majoring in English. Credit is not given for both this course and for 101-(102). Prerequisite: An inclusive average of 2.25.

101-(102). HONORS COURSE

6 credit hours

Senior course. See index.

Major: 30 semester hours in departmental course work, including 24 hours in literature courses. Majors must elect 11-(12), 41-(42), 95, and at least six hours from the following group: 44, 45, (46), 53-(54), 57, (58), 61, (62), and (70). In addition, at least three of these six hours must be from the following group: 44, 53-(54), 57, and (58). Students who hope to receive departmental honors must elect 101-(102).

Minor: 18 semester hours in departmental course work, including 15 hours in literature courses. Minors must elect 11-(12) and at least six hours from the following group: 41-(42), 44, 45, (46), 53-(54), 57, (58), 61, (62), and (70).

FINE ARTS

PROFESSORS SELLERS AND FLOWER

ASSOCIATE PROFESSOR DIXON

ASSISTANT PROFESSOR PUSEY

The courses in Fine Arts are designed to aid students in an appreciation of the fine arts, and in seeing each art as a reflection of the humanistic ideals of its period in civilization. Art exhibits are held regularly in the gallery in Bosler Hall. Visiting artists meet informally from time to time with the art classes to discuss professional problems and theory.

*11, (12). FUNDAMENTALS OF PAINTING AND DESIGN

3 or 6 credit hours

A studio course consisting of one hour of formal instruction in the classroom and five hours of supervised work in the studio per week.

Freshman course.

31-(32). HISTORY OF ART

6 credit hours

A general survey course of both major and minor fields of art. This course is an introduction to the analysis and understanding of art works. It serves also as an introduction to more intensive study in any one field.

Freshman course.

(38). BAROQUE ART

3 credit hours

This course will trace the development of the Baroque style from its precursor in Italian mannerism to its successor in French and German Rococo.

Sophomore course.

39. CLASSICAL ART IN GREECE AND ITALY

3 credit hours

Introduced by a survey of the ancient cultures of the Mediterranean areas on the development of Greek culture, this course concentrates on the architecture and

sculpture of the Greeks, the sculpture of the Etruscans and the architecture, sculpture and painting of the Romans.

Sophomore course.

(40). MEDIEVAL ART 3 credit hours

This course considers the art of the middle ages from its origin in the art of the barbarian invaders to its dissolution in the International style of the early fifteenth century. Particular emphasis is placed on the art of the Gothic cathedral.

Sophomore course.

(42). MODERN ARCHITECTURE 3 credit hours

A course covering the background of modern architecture from the Renaissance to the present. It considers in detail the development of architecture in the twentieth century with particular attention to the work of Frank Lloyd Wright, the architects of the International Style, as well as that of Stone and Nervi.

Sophomore course.

43. RENAISSANCE ART 3 credit hours

A study of Renaissance art and the Renaissance idea from the beginning of the 14th to the end of the 16th century. This course will make use of developments in all countries but particular emphasis will be placed on Italy and the Low Countries.

Sophomore course.

44. MODERN PAINTING 3 credit hours

A study of the influences on modern art beginning with the Impressionist Movement in painting. Attention is also given to contemporary sculpture.

Sophomore course.

(45). AMERICAN ART 3 credit hours

The history of painting, engraving, sculpture and architecture in the United States.

Sophomore course. Prerequisite: A course in Art or permission of instructor.

(46). AMERICAN ART SEMINAR 3 credit hours

Each student completes an individual research project in the field of American art.

Junior course. Prerequisite: 45 and the permission of the instructor.

51. THE ART OF THE CHRISTIAN CHURCH 3 credit hours

A study of the historical development of Christian Art, the inter-action between art and the history, thought and worship of the Christian Church, and the Christian criticism of man and society, as seen in works of art.

Junior course.

Minor: 18 semester hours, including 31-(32).

GEOLOGY

ASSOCIATE PROFESSOR DIFFORD

MR. VIRGIN

The course offerings in the Department of Geology are designed to give a comprehensive view of the principal areas of the science of geology and experience in the fundamentals of geological investigation. This well-rounded program is provided for students planning to proceed for graduate study or research in the field or directly into positions for which geological training is a requisite, as well as to stimulate understanding and enjoyment of the region in which the student will live.

11-(12). PHYSICAL AND HISTORICAL GEOLOGY 8 credit hours

First Semester. Geological principles and external processes, including rock weathering and soils, river action and valley development, effects of glaciers, oceans and volcanoes. Internal processes and their effects are examined, along with earth movement in mountain building, faulting and folding. Second Semester. The history of the earth and its changing features, with the development of its animal and plant inhabitants. Three hours classroom and two hours laboratory per week.

Freshman course.

23. MINERALOGY 3 credit hours

A course in descriptive mineralogy in which the various mineral groups are studied. Includes crystallography, general physical properties, chemical and systematic mineralogy. Two hours classroom and two hours laboratory.

Sophomore course. Alternates with 25. To be given 1959-60. Prerequisite: 11-(12) and Chemistry 11-(12).

(24). PETROLOGY 3 credit hours

A systematic study of the modes of occurrence, origin, and classification of rock types. Laboratory studies will be focused on the megascopic identification of the common rocks. Two hours classroom and two hours laboratory per week.

Sophomore course. Alternates with (26). To be given 1959-60. Prerequisite: 11-(12) and 23.

25. INTRODUCTORY PALEONTOLOGY 3 credit hours

This course takes up the chief invertebrate fossil groups including fossils of Pennsylvanian Paleozoic formations. Two hours classroom and two hours laboratory.

Sophomore course. Alternates with 23. To be given in 1960-61. Prerequisite: 11-(12) or Biology 11-(12) or Biology 23-(24).

(26). STRATIGRAPHY 2 credit hours

A study of the origin, description, properties, classification and methods of correlation of the stratified rocks.

Sophomore course. Alternates with (24). To be given in 1960-61. Prerequisite: 11-(12).

31. ECONOMIC GEOLOGY: NON-METALS *2 credit hours*

This course covers the mineral fuels, coal, oil and gas, as well as building materials, saline substances and fertilizer materials.

Sophomore course. Alternates with 33. To be given 1959-60. Prerequisite: 11-(12).

(32). ECONOMIC GEOLOGY: METALS *2 credit hours*

This course covers a study of ores and ore deposits, including their geographic distribution, geologic occurrence, origin and uses.

Sophomore course. Alternates with (34). To be given 1959-60. Prerequisite: 11-(12).

33. STRUCTURAL GEOLOGY *3 credit hours*

Properties, relationships, and positions of the component rock masses of the earth. Two hours classroom and two hours laboratory per week.

Sophomore course. Alternates with 31. To be given in 1960-61. Prerequisite: 11-(12) and knowledge of trigonometry.

(34). SEDIMENTOLOGY *3 credit hours*

Origin, transportation, deposition, characteristics, and consolidation of sediments. Two hours classroom and two hours laboratory per week.

Sophomore course. Alternates with (32). To be given in 1960-61. Prerequisite: 11-(12).

37. GEOMORPHOLOGY *2 credit hours*

The description and interpretation of the earth's relief features, with a comprehensive study of the basic geologic processes which shape these features.

Sophomore course. Alternates with 43. To be given in 1960-61. Prerequisite: 11-(12).

(38). FIELD GEOLOGY *3 credit hours*

A course in some of the basic geological field techniques, with the preparation of geological maps and reports from data obtained by the student in the field. Two hours classroom and two hours laboratory per week.

Junior course. Alternates with (44). To be given in 1960-61. Prerequisite: 11-(12) and 33.

43. ENGINEERING GEOLOGY *2 credit hours*

The main purpose of the course is to provide geology students with a knowledge of those phases of geology, soil and rock mechanics, and other earth sciences which are necessary for working with civil engineers.

Junior course. Alternates with 37. To be given 1959-60. Prerequisite: 11-(12) and 33.

(44). GEOCHEMISTRY

2 credit hours

A systematic study of the chemistry of the earth, including principles governing the distribution and migration of the chemical elements as well as the abundance of the elements and atomic species in the earth, its aqueous envelope and the atmosphere.

Junior course. Alternates with (38). To be given 1959-60. Prerequisite: 11-(12) and Chemistry 11-(12).

91, (92). SEMINAR IN GEOLOGY

2 or 4 credit hours

Individual problems. Reviews of current literature and reports on selected readings.

Junior course. Open only to students majoring or minoring in Geology. Prerequisite: consent of instructor.

101-(102). HONORS COURSE

6 credit hours

Senior course. See index.

Major: 30 semester hours, including 11-(12), (38), and 91, (92). In addition, Chemistry 11-(12) is required along with at least one of the following year-courses: Biology 11-(12) or 23-(24), Mathematics 3-(4), or 3, (12), Physics 11-(12).

Minor: 18 semester hours, including 11-(12). Physics 23 may be counted toward this requirement.

HISTORY

PROFESSOR WING

ASSOCIATE PROFESSORS PFLAUM, KELLOGG,* AND GATES

ASSISTANT PROFESSOR YOUNG

MR. CARSON AND MR. MILLER

The studies in History are planned to serve three principal purposes: to inform the student of the principal events and developments in the past that he may gain a better perspective of our present world; to present opportunities to obtain training in the techniques of research such as are used by lawyers, scientists, and workers in all advanced fields of study; to supplement the studies in other disciplines, such as English and Classical Literature, the Social Studies, and the humanities and natural sciences, to the end that a better conception is achieved of the relationship of human achievements and that some appreciation is attained of the significance of the varied activities of mankind.

* Leave of absence spring semester 1958-1959.

- 11-(12). SURVEY OF WORLD HISTORY 6 credit hours
 The history of civilization from prehistoric times to the present.
Freshman course.
13. HUMAN GEOGRAPHY 2 credit hours
 The course is concerned with the physical conditions under which men live and their development and adjustment.
Freshman course.
- (14). HISTORICAL GEOGRAPHY 2 credit hours
 After a discussion of the history of geographical discovery and the development of geographical science, the course is concerned with the influence of geographical conditions upon historical development and with the uses which historians make of geographical data to interpret historical events and trends.
Freshman course. Prerequisite: a semester course in history.
- 17-(18). AMERICAN HISTORY 6 credit hours
 An intensive study of the colonial and national periods of the United States.
Sophomore course.
- 21, (22). HELLENIC HISTORY 3 or 6 credit hours
 A study of the Greek people from prehistoric times to the beginning of the Middle Ages.
Sophomore course. Alternates with 23, (24). To be given in 1960-61.
- 23, (24). ROMAN HISTORY 3 or 6 credit hours
 A study of the development of the Roman people from prehistoric times to the beginning of the middle ages.
Sophomore course. Alternates with 21, (22). To be given in 1959-60.
39. UNITED STATES HISTORY: 1789 TO DATE 3 credit hours
 A brief course on the American nation. Emphasis is placed on the major political and economic events and movements.
Junior course. Not open to students who have credit for 17-(18).
- 43, (44). ENGLISH HISTORY: 55 B. C. TO DATE 3 or 6 credit hours
 In the first semester the class studies the ancient and medieval periods from 55 B. C. to 1660 A. D.; in the second the history of England and the British Empire to the present day.
Sophomore course.
47. AMERICAN COLONIAL HISTORY 3 credit hours
 A survey of English America from 1607 to 1789.
Junior course. To be given 1960-61.

(48). HISTORY OF PENNSYLVANIA 3 credit hours

The political, economic, social, and cultural development of the Commonwealth from the settlement by the Swedes to the present time.

Junior course. To be given in 1960-61.

*49, (50). AMERICAN SOCIAL AND CULTURAL HISTORY 3 or 6 credit hours

The social and intellectual developments in the United States from 1763 to 1940.

Junior course. To be given in 1960-61. Prerequisite: 17-(18).

(55). RECENT AMERICAN HISTORY 3 credit hours

An analysis of the development of the American nation in the period since 1898.

Junior course. Given in alternate years. To be given 1959-60. Prerequisite: 17-(18).

(56). HISTORY OF LATIN AMERICA 3 credit hours

The principal topics included are: exploration and colonization of the New World by the Spanish and Portuguese, administrative policies, wars of independence, history of Latin nations in the Western hemisphere during the nineteenth and twentieth centuries, establishment of the Pan American Union, relations of Latin America with the United States and with Europe.

Sophomore course. Given in alternate years. To be given in 1960-61.

57. HISTORY OF THOUGHT IN ANCIENT AND MEDIEVAL TIMES 2 credit hours

The course deals with intellectual history of Europe.

Junior course. Given in alternate years. To be given 1959-60.

(58). HISTORY OF SCIENCE IN MODERN TIMES 2 credit hours

Three main developments are considered: increasing scientific information; the development of scientific principles and interpretations; the correlation of scientific ideas with the life of the general population.

Junior course. Given in alternate years. To be given 1959-60. Prerequisite: a course in world history or an experimental natural science.

61, (62). MODERN EUROPEAN HISTORY 3 or 6 credit hours

The work of the first semester covers the period 1500-1815; that of the second, the period 1815-1914.

Sophomore course.

(70). RENAISSANCE AND REFORMATION 3 credit hours

The intellectual, artistic, and religious aspects of European history 1300-1660.

Junior course. Given in alternate years. To be given in 1960-61.

71. FRENCH REVOLUTION AND NAPOLEON 3 credit hours

This course is intended to interpret the French Revolution in its national and European setting, to present the principal events of the period and of the Napoleonic era, and to analyze the significance of the European adjustments in the Congress of Vienna.

Junior course. Given in alternate years. To be given in 1960-61.

73. HISTORY OF RUSSIA AND ITS NEIGHBORS 3 credit hours

The work of the course is devoted to the history of the Slavic peoples of Eastern and Central Europe and their neighbors in the period, 400-1894.

Junior course. Given in alternate years. To be given in 1960-61.

(74). HISTORY OF RUSSIA AND ITS NEIGHBORS 3 credit hours

This continues the work of History 73 in the period 1894-1958. Special attention is given to the history and institutions of the Soviet Union.

Junior course. Given in alternate years. To be given in 1960-61.

75, (76). WORLD WAR II 3 or 6 credit hours

The work of the first semester is devoted mainly to the European phases of the war. A study is made of the history of Europe from the First World War to the Second with special reference to the conditions during the Long Armistice that led to the conflict. The work of the second semester continues the study of the Second World War and its antecedents with special emphasis on the participation of the United States and Japan in the conflict and in world affairs. The history of antecedent conditions in the Middle and Far East and in the Americas is studied in considerable detail. It is followed with analysis of the post-war conditions and the methods used to insure a just and durable peace.

Junior course. Prerequisite: 61-(62) or permission of the instructor.

81. DIPLOMATIC HISTORY OF THE UNITED STATES: 1778 TO DATE

3 credit hours

A study of the development of American diplomacy and of the leading treaties and conventions to which United States has been a party. Some study is made of bibliography and diplomatic correspondence.

Junior course. Given in alternate years. To be given in 1959-60. Prerequisite: 17-(18).

83. HISTORY OF THE NEAR EAST 2 credit hours

After a survey of Southeastern Europe and of Southern and Southwestern Asia in the period from 395 to 1500, special attention is given to the relations of the Ottoman Empire and of other Moslem peoples to the European powers in the modern era.

Junior course. Alternates with 85. To be given in 1960-61.

(84). HISTORY OF MEDIEVAL AND MODERN INDIA 2 credit hours

After a survey of the Hindu and Moslem periods of Indian history preceding the British conquest, the work of the course is concerned principally with the history of India and its relations with the British Empire in the past two hundred years, and the assumption of leadership in Asian affairs by Indian statesmen. *Junior course. Alternates with (86). To be given in 1960-61.*

85, (86). HISTORY OF THE FAR EAST 2 or 4 credit hours

In the first semester a study is made of the original and historical development of the peoples of Eastern Asia and of the Southwestern Pacific from earliest times to the moment that they were drawn into the sphere of European and American interests. The second semester is devoted to the history of the Far East in the past century and a half and to the problems of this region in relation to the rest of the world.

Junior course. Alternates with 83, (84). To be given in 1959-60.

87. AMERICAN CONSTITUTIONAL HISTORY 3 credit hours

A study of the process by which the American Federal Constitution was framed and a narrative account of its historical development with emphasis upon the forces that brought about changes and on the evolving interpretations of the constitution by the courts.

Junior course. Given in alternate years. To be given in 1960-61. Prerequisite: 17-(18).

(88). AMERICAN HISTORY IN THE CIVIL WAR PERIOD 3 credit hours

A study of the middle period of American history from 1840 to 1880 with special reference to the Civil War.

Junior course. Given in alternate years. To be given in 1960-61.

*91, (92). HISTORY SEMINAR 2 or 4 credit hours

The work of the first semester is devoted to instruction in the technique of historical research and forms an introduction to graduate studies. The work of the second semester is devoted to special problems and the preparation of a term paper.

Junior course. Prerequisite: Permission of the departmental chairman.

101-(102). HONORS COURSE 6 credit hours

Senior course. See index.

Major: Thirty semester hours, including History 11-(12), 17-(18), 61, (62), 75, (76).

Minor: Eighteen semester hours, including History 11-(12) and 17-(18).

LAW

The pre-legal student may adopt a combined College-Law program in association with the Dickinson School of Law. For a detailed description of this program see index.

MATHEMATICS

ASSOCIATE PROFESSORS NELSON, MILLER, AND BENSON
MR. SEABURY

Mathematics is generally regarded as one of the best preparations for those professions which require accuracy and precise thinking. Calculus and Statistics are basic for advanced work in Economics, Psychology, Sociology, and the Biological Sciences; Calculus and Differential Equations are basic for advanced work in the Physical Sciences. A major in Mathematics may use his knowledge in engineering, in actuarial work, in civil service employment of various kinds, in industrial and business positions, and in teaching mathematics in secondary schools and colleges.

1-(2). GENERAL MATHEMATICS 6 credit hours

A study of linear, quadratic, power, exponential, logarithmic, and trigonometric functions; empirical equations; elements of statistics; intended primarily as a terminal course.

Freshman course

3. INTRODUCTION TO MATHEMATICAL ANALYSIS 5 credit hours

A study of college algebra, trigonometry, and other topics with emphasis on analysis. This is a foundation course for more advanced mathematics and for major work in the physical sciences.

Freshman course. Not open to students with credit for 5-(6). Followed by (12).

5-(6). BASIC MATHEMATICS 6 credit hours

A tool course designed to cover the basic principles of college algebra and trigonometry. It is intended primarily to satisfy the minimum mathematical requirements to enable premedical and pre dental students to undertake the study of Chemistry and Physics.

Freshman course. Not open to students with credit for 3.

(12). ANALYTIC GEOMETRY AND CALCULUS I 5 credit hours

An integrated study of the principles and processes of analytic geometry and calculus through the algebraic functions, with applications.

Freshman course. Prerequisite: 3 or the equivalent.

15-(16). ANALYTIC GEOMETRY AND CALCULUS II & III 6 credit hours

A continuation of analytic geometry and calculus through transcendental functions, formal integration, multiple integrals, infinite series, and partial differentiation, with applications and supporting analytic geometry.

Sophomore course. Prerequisite: (12).

23-(24). STATISTICS

6 credit hours

Introduction to standard methods of statistical analysis: measures of central tendency and dispersion, proportions, estimation and testing hypotheses, regression and correlation, chi-square tests, analysis of variance, index numbers, and time series.

Sophomore course. Prerequisite: 2 or 3 or equivalent.

29. NUMBER THEORY

3 credit hours

A study of the elementary arithmetic of the integers: prime numbers, factorization, congruences, diophantine equations, rational and complex numbers.

Sophomore course. Open to freshmen who are qualified to omit 3. Prerequisite: 3 or the equivalent.

(30). THEORY OF EQUATIONS

3 credit hours

Further study of algebra with particular attention to the solution of equations.

Sophomore course. Prerequisite: 3 or the equivalent.

31. CALCULUS III

3 credit hours

A continuation of Mathematics 21-(22): improper integrals, series, partial differentiation, double and triple integrals, with applications.

Junior course. Not to be offered after 1959-1960. Prerequisite: 21-(22).

(32). DIFFERENTIAL EQUATIONS

3 credit hours

A study of ordinary differential equations of the first and second orders, and linear equations of higher orders, with applications.

Junior course. Not to be offered after 1959-1960. Prerequisite: 31.

*37, (38). DIFFERENTIAL EQUATIONS

3 or 6 credit hours

A study of elementary differential equations. Ordinary equations of the first and second order, linear equations, power series solutions, partial differential equations, and other topics.

Junior course. To be offered in 1960-1961. Prerequisite: 15-(16).

41. ANALYTIC GEOMETRY OF SPACE

3 credit hours

The line and plane in space, quadric surfaces, transformations, and related topics.

Junior course. Alternates with 55 and 57. To be given in 1959-1960 and 1961-1962. Prerequisite: 15-(16) or 21-(22).

(42). PROJECTIVE GEOMETRY

3 credit hours

A synthetic and analytic treatment of projectivities, involutions, point and line conics.

Junior course. Alternates with (56) and (58). To be given in 1959-1960 and 1961-1962. Prerequisite: 15-(16), or 21-(22).

*55, (56). MODERN ALGEBRA I & II 3 or 6 credit hours

A study of selected topics in modern algebra such as set and group theory, linear algebra, vectors, matrices, and determinants.

Junior course. Alternates with 41, (42) and 57, (58). To be given in 1959-1960 and 1960-1961. Prerequisite: 15-(16), or 21-(22).

57. TOPICS IN ADVANCED CALCULUS 3 credit hours

Selected topics from advanced calculus.

Senior course. Alternates with 41 and 55. To be given in 1960-1961 and 1961-1962. Prerequisite: 31, (32) or 37, (38).

(58). FUNCTIONS OF A COMPLEX VARIABLE 3 credit hours

Covers the traditional elementary theory of complex analytic functions.

Senior course. Alternates with (42) and (56). To be given in 1960-1961 and 1961-1962. Prerequisite: 31, (32) or 37, (38).

101-(102). HONORS COURSE 6 credit hours

Senior course. See index.

Major: 24 semester hours, including 31 and (32), for the classes of 1960 and 1961.

27 semester hours, including 37 and (38), for the class of 1962.

30 semester hours, including 37 and (38), for the classes of 1963 et seq.

Minor: 12 semester hours for the classes of 1960 and 1961.

15 semester hours for the class of 1962.

18 semester hours for the classes of 1963 et seq.

NOTE: The mathematics requirements for the degree of Bachelor of Science may be satisfied by any of the following: Mathematics 1-(2) or 3, (4) or 3, (12) or 5-(6) or, for premedical or pre dental students, 5 if completed prior to July, 1959.

MILITARY SCIENCE AND TACTICS

PMST: LIEUTENANT COLONEL GEORGE E. DESHON

ASST. PMST: CAPTAIN JOHN D. SCANDLING AND

CAPTAIN ALBERT L. RUSSELL, JR.

ENLISTED INSTRUCTORS: MASTER SERGEANTS BEIERSCHMITT AND KENT;
SERGEANT FIRST CLASS KISER; SERGEANTS STEWART AND PATTON

1-(2). MILITARY SCIENCE I 4 credit hours

Drill and Command; Organization of the Army and ROTC; Individual Weapons and .22 cal. Rifle Marksmanship; American Military History. Two hours classroom and two hours drill per week.

Freshman course.

10-(11). MILITARY SCIENCE II

4 credit hours

Drill and Command; Map and Aerial Photograph Reading; Crew-served Weapons and Gunnery; Role of the Army in National Defense. Two hours classroom and two hours drill per week.

Sophomore course.

20-(21). MILITARY SCIENCE III

6 credit hours

Leadership; Military Teaching Principles; Branches of the Army; Small Unit Tactics and Communications; School of the Soldier and Exercise of Command; and pre-summer Camp Orientation. Four hours classroom and two hours drill per week.

Junior course.

30-(31). MILITARY SCIENCE IV

6 credit hours

Operations (command and staff, estimate of the situation and combat orders, military intelligence, the military team, training management); Logistics; Personnel Management (military administration, military justice); Service Orientation (role of the United States in world affairs and the present world situation, leadership, officer indoctrination); School of the Soldier and Exercise of Command. Four hours classroom and two hours drill per week.

Senior course.

NOTE: 1. Enrollees successfully completing MS III are required to attend camp under direct Army supervision for six weeks during the summer. This is normally between their junior and senior years.

2. Except in special circumstances (which requires specific approval), students who enroll, either in the Basic Course (Military Science I & II) or in the Advanced Course (Military Science III & IV), must successfully complete the two-year course in which they enroll in order to graduate.

MODERN LANGUAGES AND LITERATURES

PROFESSORS GRIMM, TAINTOR, AND SANDELS

ASSOCIATE PROFESSORS WEIGEL,* KENNEDY, KIRK,

MAURINO, AND RAMOS

ASSISTANT PROFESSORS MAGUIRE AND STARK

MISS BARANGER

The courses in Modern Languages are designed to provide a well-balanced training in the language and literature for those who elect a major or minor in the Department. Those who do not wish to meet the requirements for a major or minor may elect any courses for which they have the prerequisites as stated in the description of the courses. Work in the Language Laboratory is required for the 31, (32) and 41, (42) courses, and is strongly recommended for the other courses.

* Absent on leave 1958-1959.

*French*1-(2). ELEMENTARY FRENCH 8 credit hours

Thorough drill in grammar. Special attention given to pronunciation and oral work. Composition. Readings of increasing difficulty.

11-(12). INTERMEDIATE FRENCH 8 credit hours

Grammar review. Reading and composition. Emphasis on oral work.

Prerequisite: 1-(2), or the equivalent.

* 31, (32). FRENCH CONVERSATION AND COMPOSITION 3 or 6 credit hours

The chief aim of this course is to teach the student to speak and understand the language. Pronunciation is taught and corrected by phonetic transcription. Grammar review and composition. Course conducted partly in French.

Prerequisite: (12), or the equivalent, with a grade of at least C.

* 33, (34). SURVEY OF FRENCH LITERATURE 3 or 6 credit hours

A study of masterpieces of French literature. A translation course.

Prerequisite: (12), or the equivalent, with a grade of at least C.

* 41, (42). ADVANCED FRENCH CONVERSATION AND COMPOSITION 3 or 6 credit hours

A continuation of French 31, (32). Course conducted in French.

Prerequisite: (32), or the equivalent, with a grade of at least C.

* 51, (52). FRENCH LITERATURE OF THE SEVENTEENTH CENTURY 3 or 6 credit hours

Reading and discussion of representative works of the important writers of the century. Collateral readings and reports.

Given in alternate years. To be given in 1959-60. Prerequisite: (34), or the equivalent, with a grade of at least C.

* 53, (54). FRENCH LITERATURE OF THE EIGHTEENTH CENTURY 3 or 6 credit hours

Reading and discussion of representative works of the important writers of the century. Collateral readings and reports.

Given in alternate years. To be given in 1960-61. Prerequisite: (34), or the equivalent, with a grade of at least C.

* 55, (56). FRENCH LITERATURE OF THE NINETEENTH CENTURY 3 or 6 credit hours

Reading and discussion of representative works of the important writers of the century. Collateral readings and reports.

Given in alternate years. To be given in 1960-61. Prerequisite: (34), or the equivalent, with a grade of at least C.

* 57. (58). FRENCH LITERATURE FROM 1900 TO THE PRESENT

3 or 6 credit hours

Reading and discussion of representative works of the important writers of the period. Collateral readings and reports.

Given in alternate years. To be given in 1959-60. Prerequisite: (34), or the equivalent, with a grade of at least C.

101-(102). HONORS COURSE

6 credit hours

See index.

Major: French 11-(12), 31, (32), 33, (34), 41, (42), and six additional hours chosen from courses numbered above 50, or the equivalent of these courses.

Minor: French 11-(12), 31, (32), and 33, (34), or the equivalent of these courses.

NOTE: To elect a major or minor, a student must have attained an inclusive average of at least 2.00 in all French courses taken in college.

German

1-(2). ELEMENTARY GERMAN

8 credit hours

Study of the fundamentals of German grammar. Reading of short stories and poetry of increasing difficulty. Emphasis on oral expression.

11-(12). INTERMEDIATE GERMAN

8 credit hours

Review of the fundamental principles of grammar. Intensive reading of prose and poetry of increasing difficulty, with emphasis on vocabulary building. Oral practice based on material read.

Prerequisite: 1-(2), or the equivalent.

* 31, (32). GERMAN CONVERSATION AND COMPOSITION

3 or 6 credit hours

Training in the speaking and writing of everyday German. Intensive review of grammar; course conducted partly in German.

Prerequisite: (12), or the equivalent, with a grade of at least C.

* 33, (34). SURVEY OF GERMAN LITERATURE

3 or 6 credit hours

An introduction to German literature presenting its development from the earliest period to the present time. A translation course. Lectures on readings from representative works.

Prerequisite: (12), or the equivalent, with a grade of at least C.

* 41, (42). ADVANCED GERMAN CONVERSATION AND COMPOSITION

3 or 6 credit hours

A continuation of German 31, (32). Course conducted in German.

Prerequisite: (32), or the equivalent, with a grade of at least C.

* 61, (62). GOETHE AND SCHILLER

3 or 6 credit hours

Reading in Goethe's poems and major prose works during the fall semester. The spring semester is devoted to Schiller's ballads, dramas, and prose writings. *To be given in 1960-61. Prerequisite: (34), or the equivalent, with a grade of at least C.*

65. THE GERMAN LYRIC

3 credit hours

A survey of German lyric poetry from its origins to the present. Reading and discussion of representative authors.

To be given in 1961-62. Prerequisite: (34), or the equivalent, with a grade of at least C.

(66). THE GERMAN DRAMA

3 credit hours

The development of the German drama from the mediaeval mystery plays to the dramatic productions of modern times. Reading and interpretation of representative dramas.

To be given in 1961-62. Prerequisite: (34), or the equivalent, with a grade of at least C.

67. THE GERMAN SHORT STORY

3 credit hours

The development of the *Novelle* from Goethe to Thomas Mann, with special emphasis on the authors of Romanticism, Poetic Realism, and modern literary movements. Reading and discussion of representative *Novellen*.

To be given in 1959-60. Prerequisite: (34), or the equivalent, with a grade of at least C.

(72). HISTORY OF THE GERMAN LANGUAGE

3 credit hours

A study of the various periods of the language, with special emphasis on the development of forms and meanings and the influence of individual men and historical circumstances.

To be given in 1959-60. Prerequisite: (12), or the equivalent, with a grade of at least C.

101-(102). HONORS COURSE

6 credit hours

See index.

Major: German 11-(12), 31, (32), 33, (34), 41, (42), and six additional hours chosen from courses numbered above 50, or the equivalent of these courses.

Minor: German 11-(12), 31, (32), and 33, (34), or the equivalent of these courses.

NOTE: To elect a major or minor, a student must have attained an inclusive average of at least 2.00 in all German courses taken in college.

Spanish

- 1-(2). ELEMENTARY SPANISH 8 credit hours
 Thorough drill in grammar. Special attention given to pronunciation and oral work. Composition. Readings of increasing difficulty.
- 11-(12). INTERMEDIATE SPANISH 8 credit hours
 Grammar review. Reading and Composition. Emphasis on oral work.
Prerequisite: 1-(2), or the equivalent.
- * 31, (32). SPANISH CONVERSATION AND COMPOSITION 3 or 6 credit hours
 The chief aim of this course is to teach the student to speak and understand the language. Pronunciation is taught and corrected by phonetic transcription. Grammar review and composition. Course conducted partly in Spanish.
Prerequisite: (12), or the equivalent, with a grade of at least C.
- * 33, (34). SURVEY OF SPANISH LITERATURE 3 or 6 credit hours
 A study of masterpieces of Spanish literature. A translation course.
Prerequisite: (12), or the equivalent, with a grade of at least C.
- * 41, (42). ADVANCED SPANISH CONVERSATION AND COMPOSITION 3 or 6 credit hours
 A continuation of Spanish 31, (32). Course conducted in Spanish.
Prerequisite: (32), or the equivalent, with a grade of at least C.
- * 51, (52). SPANISH LITERATURE OF THE GOLDEN AGE 3 or 6 credit hours
 Reading and discussion of representative works of the important writers of the Golden Age. Collateral readings and reports.
Given in alternate years. To be given in 1959-60. Prerequisite: (34), or the equivalent, with a grade of at least C.
- * 55, (56). SPANISH LITERATURE OF THE NINETEENTH CENTURY 3 or 6 credit hours
 Reading and discussion of representative works of the important writers of the century. Collateral readings and reports.
Given in alternate years. To be given in 1960-61. Prerequisite: (34), or the equivalent, with a grade of at least C.
- * 57, (58). SPANISH LITERATURE FROM 1900 TO THE PRESENT 3 or 6 credit hours
 Reading and discussion of representative works of the important writers of the period. Collateral readings and reports.
Given in alternate years. To be given in 1959-60. Prerequisite: (34), or the equivalent, with a grade of at least C.

* 71, (72). SPANISH-AMERICAN LITERATURE 3 or 6 credit hours

A course designed to give the student a survey of Spanish-American literature and civilization and an introduction to some of the more important authors from the colonial period to the present.

Given in alternate years. To be given in 1960-61. Prerequisite: (34), or the equivalent, with a grade of at least C.

101-(102). HONORS COURSE 6 credit hours

See index.

Major: Spanish 11-(12), 31, (32), 33, (34), 41, (42), and six additional hours chosen from courses numbered above 50, or the equivalent of these courses.

Minor: Spanish 11-(12), 31, (32), and 33, (34), or the equivalent of these courses.

NOTE: To elect a major or minor, a student must have attained an inclusive average of at least 2.00 in all Spanish courses taken in college.

MUSIC

PROFESSOR SCHECTER

ASSISTANT PROFESSOR ULTAN

MR. JARRETT

The Department of Music offers a variety of courses which are devoted essentially to the historical and theoretical aspects of the field. Completing a minor in this department will enable the student to become an active participant in vocal or instrumental ensembles and to develop a broad understanding and intelligent appreciation of a wide variety of music literature. Creative writing is strongly encouraged together with participation in any of several instrumental and vocal ensembles available on campus.

*13, (14). SIGHT READING AND DICTATION 2 or 4 credit hours

The goal of this course is to enable the student to read unfamiliar music at sight. Tonality is introduced with the use of solmization. Intervallic, rhythmic and melodic dictation are presented with some harmonic dictation being offered in the latter part of the course. (Previous training in music is not necessary.)

Freshman course. Requisite: Concurrent participation in one of the faculty conducted ensembles.

*15, (16). HARMONY 3 or 6 credit hours

A study of the harmonic principles of music essential to a proper understanding of this art. Notation, intervals, rhythm, tonality; composition of original melodies; simple four-part writing, through diatonic and some altered chords; original

composition for mixed chorus. (Previous training in music is not necessary, however, concurrent or prior work in Music 13, (14) is recommended.)

Freshman course. Requisite: Concurrent participation in one of the faculty conducted ensembles.

(24). ANALYTICAL STUDIES

3 credit hours

The intent of this course is to permit the student to become familiar with the heart of music. The techniques of analysis are presented as related to small instrumental and vocal forms and the course of study is directed toward the eventual analysis of large compositions such as the sonata and the symphony. A comparison of styles and techniques of the several historical periods of music are accomplished through analysis of representative works.

Sophomore course. Prerequisite: 15. (16) is also recommended.

25-(26). ADVANCED HARMONY

6 credit hours

A continuation of the first year course in Harmony with a study of altered chords; modulation between tonalities; complex chords in thirds; creative writing for vocal and instrumental ensembles. Some principles of contemporary harmonic composition will be treated in the latter part of the course.

Sophomore course. Prerequisite: 15, (16) the permission of the instructor and concurrent participation in one of the faculty conducted ensembles.

31. TWENTIETH CENTURY MUSIC

3 credit hours

After a brief introduction to the basic principles of music and the stage of advancement music reached in the late nineteenth century, the course devotes its attention to the changes which took place in the aesthetics of the twentieth century composers, the many schools of composition which developed and the various styles and techniques which each of these schools represent. Included in these discussions is a study of the many significant American composers of formal music, jazz, electronic music and the "radicals" of the present era. (Previous training in music is not necessary.)

Junior course.

41. FORMS IN MUSIC

2 credit hours

Includes a study of the growth of music and an analysis of its forms. (Previous training in music is not necessary.)

Junior course.

(42). THE HISTORY OF MUSIC

2 credit hours

Includes a study of eleven great composers. (Previous training in music is not necessary.)

Junior course.

81-(82). INSTRUMENTAL SEMINAR

2 credit hours

The problems of instrumental performance are studied together with the historical background of instruments, literature of all types of instrumental solo and ensemble playing and the various styles of instrumental music from the sixteenth century to the present. Three hours classroom and instrumental study per week. (Previous training in music is not required, however, Music 13, (14) is recommended.)

Junior course. Prerequisite: permission of the instructor and concurrent participation in one of the faculty conducted ensembles.

83-(84). VOCAL SEMINAR

2 credit hours

The problems of vocal production are studied together with the history of vocal music, literature for solo and various ensembles through a study of styles, and the techniques of writing for voices. Three hours classroom and vocal study per week. (Previous training in music is not required, however, Music 13, (14) is recommended.)

Junior course. Prerequisite: permission of the instructor and concurrent participation in one of the faculty conducted ensembles.

91-(92). INSTRUMENTAL SEMINAR

2 credit hours

A continuation of Music 81-(82).

Senior course. Prerequisite: 81-(82), the permission of the instructor and concurrent participation in one of the faculty conducted ensembles.

93-(94). VOCAL SEMINAR

2 credit hours

A continuation of Music 83-(84).

Senior course. Prerequisite: 83-(84), the permission of the instructor and concurrent participation in one of the faculty conducted ensembles.

COLLEGE CHOIR

None

A mixed choir of sixty voices meets twice each week and presents two major concerts each year, at Christmas and Founder's Day. In addition the choir sings twice each month in the College Chapel. A wide variety of music is performed representing many historical periods and styles, both sacred and secular.

Prerequisite: Audition.

CHAMBER SINGERS

None

This ensemble of twenty mixed voices carefully selected for vocal potential and musicianship, presents several public performances each year, both on and off campus and including television shows. Music of all types and styles is included in the organization's library.

Prerequisite: Audition and permission of the director.

CONCERT AND MARCHING BAND

None

During the first half of the Fall semester this fifty piece ensemble devotes its attention to the preparation and presentation of programs at the College football games. After the football season is concluded the Band prepares concert music for presentation in its own concert programs or together with the vocal ensembles.

Prerequisite: Audition and permission of the director.

ORCHESTRA

None

The newly organized College Orchestra is in the process of building a library and a repertoire for public performance. Its plans are to present two major concerts each year consisting of a wide variety of orchestral literature.

Prerequisite: Audition and permission of the director.

INSTRUMENTAL ENSEMBLES

None

Several instrumental ensembles; trios, quartets, quintets and their like, are organized on the campus each year dependent on the student interest and the availability of instrumentalists.

(Offered upon the request of the students).

Minor: 19 semester hours, including 13, (14), 15, (16), (24), and 25-(26), or the equivalent of these courses.

PHILOSOPHY AND RELIGION

PROFESSOR GOULD*

ASSISTANT PROFESSORS WELLS AND BONNEY

MR. WILEY

Courses offered in this department are designed to help students gain a comprehensive view of life and the universe, think constructively about the central problems of life, and acquire an appreciative awareness of vital expressions of religion.

Philosophy

11 or (11). INTRODUCTION TO PHILOSOPHY

3 credit hours

A survey of the chief fields of philosophy with special attention given to the influences of the physical and social sciences. Problems studied include the interpretation of nature, the sources of knowledge, the nature of reality, and the ends of life.

Freshman course.

* Refresher Leave of Absence 1958-1959.

31. ETHICS

3 credit hours

A study of the beginnings and growth of morality, the theories of moral life, and the application of these theories in the world of action. Discussion of specific problems arising in everyday life of the individual and the group in a democracy.
Sophomore course.

(32). LOGIC

3 credit hours

A study of the principles and conditions of correct thinking. A careful examination is made of the nature of proof and the detection of fallacies. The laws of correct reasoning, deductive and inductive, are applied to thinking in everyday life. In the latter part of the course the methods of scientific investigation receive special attention.

Sophomore course.

33, (34). PHILOSOPHY AND LIFE OF THE ORIENT 2 or 4 credit hours

The Oriental outlook on life contrasted with the Occidental. The first semester is devoted to a study of the culture, philosophy, and life of the people of India. During the second semester similar attention is given to China and Japan.

Sophomore course.

(36). AESTHETICS

3 credit hours

A study of the more significant classical and modern approaches to the philosophy of art with particular reference to their intellectual and psychological backgrounds.
Junior course. Alternate with (40). To be given in 1959-60.

39. PHILOSOPHY OF SCIENCE

3 credit hours

A study of the philosophical implications of the natural sciences. The major findings of science are analyzed to discover what they suggest for a philosophical understanding of nature, man, and deity.

Junior course. Alternates with 51. To be given in 1960-61. Prerequisite: 11, or a science major.

(40). PHILOSOPHY OF RELIGION

3 credit hours

Junior course. Alternates with (36). To be given in 1960-61. See Religion (40).

41. ANCIENT AND MEDIEVAL PHILOSOPHY

3 credit hours

The successive philosophical systems from the Greeks down to the fall of Constantinople. Emphasis is placed on direct acquaintance with the writings of the various authors and on their permanent contributions to Western culture.

Junior course. Prerequisite: 11.

(42). MODERN PHILOSOPHY

3 credit hours

A study of the development of philosophy from 1453 to the present time. Special emphasis is placed on the works of Descartes, Spinoza, Leibnitz, Locke, Berkeley, Hume, and Kant.

Junior course. Prerequisite: 11.

(48). CONTEMPORARY PHILOSOPHY 3 credit hours

An intensive study of the philosophies of William James, A. N. Whitehead, John Dewey, George Santayana, Henri Bergson, and the schools of neo-scholasticism, existentialism, and logical positivism.

Junior course. Prerequisite: 11.

51. THE PHILOSOPHY OF PLATO 3 credit hours

A study of Plato's philosophic system with special emphasis on his metaphysics, epistemology, and political views. While the *Republic* is used as the basic text, other dialogues are also studied in the course.

Junior course. Alternates with 39. To be given in 1959-60. Prerequisite: 11.

53. AMERICAN PHILOSOPHY 3 credit hours

Down to Contemporary Philosophy. A consideration of characteristic points of view regarding three major problems: the philosophy of culture, the philosophy of science, and the philosophy of religion.

Junior course. Prerequisite: 11.

95, (96). SEMINAR 1 or 2 credit hours

A reading and conference course.

Junior course. Prerequisite: permission of the departmental chairman.

101-(102). HONORS COURSE 6 credit hours

Senior course. See index.

Major: 30 semester hours, including 11, 31, (32), 41, (42), and (48).

Minor: 18 semester hours, including 11, 41, and (42).

NOTE: Students who major in Philosophy may not minor in Religion.

Religion

15 or (15). INTRODUCTION TO THE OLD TESTAMENT 3 credit hours

A survey course which aims to assist the student in a scholarly approach to the Old Testament, with special reference to the historical and literary setting, the ethical and spiritual content of the law and historical books. Emphasis is placed upon the tools of textual interpretation, questions of authorship, history, validity and religious values.

Freshman course.

(16). INTRODUCTION TO THE NEW TESTAMENT 3 credit hours

A survey course which aims to assist the student in a scholarly approach to the New Testament, with special reference to its formation and literary history, the teachings of Jesus, the life and thought of Paul, and the beginnings of the Christian Church. Emphasis is also placed upon the tools of textual interpretation,

questions of authorship, history, validity, and Christian values. (This course complements Religion 15, but it may be taken separately.)

Freshman course.

17. THE POETIC AND WISDOM LITERATURE OF THE OLD TESTAMENT
3 credit hours

A study of the Hebrew religion as contained in its poetic and reflective literature; the theological teachings of the Psalms; the practical wisdom and ethics of Proverbs, dealing with the successful management of life; the pessimism and skepticism of Ecclesiastes; and the problem of evil and suffering as presented in Job. *Sophomore course. Alternates with 19. To be given in 1959-60. Prerequisite: 15.*

19. THE HEBREW PROPHETS
3 credit hours

A study of the origin and development of the prophetic movement in Israel; the historical background of each prophet; the prophetic criticism of life; the central ideas of each prophet; the relevance and significance of the prophets for the life of today.

Sophomore course. Alternates with 17. To be given in 1960-61. Prerequisite: 15.

(21). THE LIFE AND TEACHINGS OF JESUS
3 credit hours

The course centers in the religious and ethical insights of Jesus in their historical setting and in their contemporary relevance. A critical study of the Gospels is made and selected biographies of Jesus are read.

Sophomore course.

23. HISTORY OF CHRISTIAN THOUGHT: EARLY AND MEDIEVAL
3 credit hours

A study of the main developments in the life and thought of the Christian Church from the first century to the beginning of the Reformation. Special emphasis is given to the historic formulations of the Christian faith, growth of the church, and to the representative theologians of this period.

Sophomore course. Alternates with 27. To be given in 1959-1960.

(24). HISTORY OF CHRISTIAN THOUGHT: MODERN AND CONTEMPORARY
3 credit hours

A study of the main developments in the life and thought of the Christian Church from the Reformation to the present. Special emphasis is given to the beliefs and growth of Protestantism and to representative European and American theologians of this period.

Sophomore course. Alternates with (28). To be given in 1959-1960.

(26). RELIGIONS IN AMERICA
3 credit hours

A study of the development of religion in the United States. Special emphasis is given to the understanding of the various faiths, denominations, and cults.

Sophomore course. Given in alternate years. To be given in 1960-61.

27. PSYCHOLOGY OF RELIGION

3 credit hours

An examination of the mental processes involved in religious experience. Special attention is given to the nature of religion, religious attitudes of childhood and adolescence, conversion, worship, prayer, mysticism, the sense of sin and forgiveness, and the belief in God and immortality.

Sophomore course. Alternates with 23. To be given in 1960-61.

(28). THE FAITHS OF MANKIND (COMPARATIVE RELIGIONS) 3 credit hours

A study of the origin and growth of religion, including an examination of primitive religion, followed by an outline study of the great religions of the world. Special emphasis is given the principal living religions.

Sophomore course. Alternates with (24). To be given in 1960-61.

31. ETHICS

3 credit hours

Sophomore course. See Philosophy 31.

(40). PHILOSOPHY OF RELIGION

3 credit hours

The application of the philosophic method to the problem of God, human personality, immortality, etc. Religion is studied and evaluated in terms of its affinity with the whole of life experience.

Junior course. Alternates with Philosophy (36). To be given in 1960-61.

95, (96). SEMINAR

1 or 2 credit hours

A reading and conference course.

Junior course. Prerequisite: permission of departmental chairman.

101-(102). HONORS COURSE

6 credit hours

Senior course. See index.

Major: 30 semester hours, including 15, (16), (26), and (28). Art 51 and Sociology 76 may be counted towards this requirement.

Minor: 18 semester hours, including 15. Art 51 and Sociology 76 may be counted toward this requirement.

NOTE: Students who major in Religion may not minor in Philosophy.

PHYSICAL EDUCATION

ASSISTANT PROFESSORS EAVENSON, WAGNER, AND DUCHARME

MR. REAM

Physical Education is required of all men and women. This work is scheduled in the freshman and sophomore years, two hours each week,

and earns one credit for each of the four semesters. For transfer students, proof of satisfactory completion of the equivalent amount of Physical Education must be presented. Credit in Physical Education will be given for military service on the basis of two credits for each year of military service. Four credits are required for graduation.

The work is composed of instruction and practice in individual activities of a nature that will have a definite carry-over value, such as golf, tennis, badminton, swimming, squash, volleyball, archery, bowling, first aid, and physical fitness.

PHYSICAL SCIENCE

Interdepartmental offerings in the physical sciences; astronomy, chemistry, geology, and physics.

13-(14). PHYSICAL SCIENCE

8 credit hours

This course is designed for the non-science student. It will present basic principles in astronomy, chemistry, geology, and physics. The course will satisfy the science requirement for the degree of Bachelor of Arts. Three hours classroom and two hours laboratory per week.

Sophomore course. Open to freshmen with permission of the Dean of Admission.

PHYSICS

PROFESSORS YEAGLEY AND LONG *

ASSOCIATE PROFESSOR BENSON

ASSISTANT PROFESSORS SIA AND STONE

ADJUNCT ASSISTANT PROFESSORS ALLEN, HENSCHEN, AND LERCH

The Department of Physics aims, in all of its courses, to develop in the student an understanding of the basic phenomena of the physical environment and the ability to use rigorous quantitative methods in their description and organization.

Two introductory courses are offered in addition to Physical Science 13-(14): (1) Elements of Physics, designed to provide pre-medical stu-

* Effective July 1, 1959.

dents and science majors with a knowledge of basic principles and training in methods of analysis, laboratory techniques, and report writing, and (2) A more detailed and comprehensive course in Astronomy, with physics major or minor credits, for science students desiring a more complete understanding of their universe.

For science majors and others seeking to pursue further studies in the physical sciences and engineering, the department offers advanced courses planned to provide a broad background and develop analytical skill essential for graduate or professional study. The laboratory work in these courses is designed to acquaint students with laboratory techniques and give them experience in interpreting and reporting the observed results.

11-(12). ELEMENTS OF PHYSICS 8 credit hours

An introduction to the study of the physical sciences, including mechanics, heat, sound, light, electricity, and magnetism. The nature of measurement, experimental verification, and methods of analysis are emphasized in problem work and in laboratory reports. Three hours classroom and two hours laboratory per week.

Sophomore course. Prerequisite: Mathematics 3 or 5-(6).

19. ATOMIC PHYSICS 2 credit hours

A systematic study of the structure of matter in the light of modern theory, including radioactivity and its measurement, the elementary particles, atomic structure, mass-energy relationships, radio-isotopes and their uses, the laws of radioactive decay, and cosmic rays.

Junior course. Prerequisite: 11-(12).

19L. ATOMIC PHYSICS LABORATORY 1 credit hour

A laboratory course supplementing Physics 19 which includes measurements of e/m and the charge of an electron, nuclear counter measurements, and ionization measurements of radioactive materials. Two hours laboratory per week.

Junior course. Prerequisite: Mathematics 15-(16) or 21-(22) and concurrent registration in Physics 19.

23. ASTRONOMY 3 credit hours

A study of the Universe as it pertains to laws governing sizes, distributions and motions of celestial bodies. Methods and results of astronomical explorations of the solar system, milky way and extragalactic systems will be included.

Sophomore course. Prerequisite: one year of college mathematics.

24L. MECHANICAL DRAWING

3 credit hours

Theory and practice of mechanical drawing; lettering, use of instruments; orthographic projections; sectioning; isometric, oblique, and perspective drawings; developments and intersections. Six hours of drawing per week.

Sophomore course. Prerequisite: Plane Geometry

25-(26). ANALYTICAL MECHANICS

6 credit hours

A study of geometry, kinematics, and dynamics. An introductory treatment of vector algebra and vector calculus is given at the beginning of the course and used throughout. Topics treated include: falling bodies, equilibrium of particles and rigid bodies, centers of mass, moments and products of inertia, work and energy, power, simple and damped harmonic motion, forced vibrations, and wave motion. An attempt is made to give the student practice and facility in developing mathematical formulae and in translating mathematical symbols into physical ideas and vice versa.

Junior course. Prerequisite: 11-(12) and Mathematics 15-(16) or 21-(22).

27-(28). ELECTRONICS

8 credit hours

A study of the fundamental principles and applications of the emission and control of electrons by thermionic tubes, transistors, and other electron devices. The laboratory work includes radio frequency measurements, work with thermionic tubes, thermistors, transistors, resonant circuits, amplifiers, oscillators and transient response of circuit elements. Three hours classroom and three hours laboratory each week.

Senior course. Prerequisites: 31-(32).

31-(32). ELECTRICITY AND MAGNETISM

8 credit hours

The fundamental principles of direct and alternating current theory; electrical and magnetic units and measuring instruments; inductance and capacitance; the time constant; alternating and direct current circuits and networks; vector representation; transient currents; elementary field theory; Maxwell's equations. The laboratory work includes measurements with various bridges, the ballistic galvanometer, potentiometer, and thermocouple. Three hours classroom and three hours laboratory per week.

Junior course. Prerequisite: 11-(12), Mathematics 15-(16) or 21-(22), and completion of, or concurrent registration in, Mathematics 31, (32) or 37, (38).

(36). NUCLEAR PHYSICS

3 credit hours

The theory of nuclear structure and application to engineering, including nuclear cross-section, thermal and fast neutron reactions, elementary pile theory and construction, and recently discovered particles. The laboratory work is a continuation of that described under Physics 19L. Two hours classroom and two hours laboratory per week.

Senior course. Prerequisite: 19, 19L, and Mathematics 15-(16) or 21-(22).

43, (44). OPTICS3 or 6 credit hours*

A study of the fundamental nature of light, including geometrical and physical optics. Applications in the field of optical instrumentation are stressed along with the contributions which the study of light has made to recent developments in physics. The laboratory work consists of the study of aberrations of lenses, use of prisms and lenses in simple optical systems, calibration of spectrometer, the study of interference, diffraction, and polarization. Two hours classroom and two hours laboratory per week.

Junior course. Prerequisite: 11-(12) and Mathematics 15-(16) or 21-(22).

45, (46). MATHEMATICAL PHYSICS3 or 6 credit hours*

The areas to be discussed include the application to physics of elliptic integrals, infinite series, Fourier series, Gamma, Bessel and Le Gendre functions, partial derivatives and differential equations, Vector Analysis and operational Calculus. Problems involving application will be selected from the fields of mechanics, heat, optics, electricity and magnetism, and fluid mechanics.

Senior course. Prerequisite: 11-(12) and Mathematics 31, (32) or 37, (38).

51. THEORETICAL PHYSICS*3 credit hours*

A mathematical presentation of the general field of theoretical physics, including the application of ordinary and partial differential equations to the mechanics of particles and rigid bodies, the development of vector analysis, oscillatory motion, generalized coordinates, the method of Lagrange and Hamilton, vector fields and the Maxwell equations of radiation.

Senior course. Prerequisite: Physics 25-(26).

83-(84). SPECIAL PROBLEMS*6 credit hours*

Laboratory work with the research aspect emphasized. Topics are chosen for investigation.

Junior course. Prerequisite: Permission of the departmental chairman.

101-(102). HONORS COURSE*6 credit hours*

Senior course. See index.

Major: 30 semester hours, including 25-(26) and 31-(32). (24)L may not be counted toward this requirement.

Minor: 18 semester hours. (24)L may not be counted toward this requirement.

POLITICAL SCIENCE

PROFESSOR TAYLER,* FLOWER, AND GAVRILOVIC
 ASSISTANT PROFESSORS FLAHERTY ** AND HARPER
 MR. SMITH AND MR. ISRAEL

The Department of Political Science aims to give students an understanding of the political and administrative problems of government and the responsibilities of citizenship. The approaches are both theoretical and practical; the areas are local, national and international. The two areas offered for concentration are Government and International Affairs. A number of students with majors and minors in political science enter fields of law, government and international organizations. Whether or not these courses, oriented into a liberal arts curriculum, are to be used as specialized training, the emphasis in all the courses offered by the department is upon the fundamental principles underlying enlightened citizenship.

11-(12). AMERICAN GOVERNMENT

6 credit hours

Description of structure and operation of the American system of government. Comparison of Federal and State governments.

Sophomore course.

30. THE CITY

3 credit hours

An analysis of social, economic, and political aspects of control in contemporary city life. Case studies of several United States metropolitan communities will provide course content, with emphasis to be given to study of existing municipal methods for planning. Also named Sociology 30.

Sophomore course. Prerequisite: Social Science 11-(12), or the equivalent.

33. MUNICIPAL GOVERNMENT AND ADMINISTRATION

3 credit hours

An analysis of the organization and functions of municipal government, recent remedial movements, taxation, property assessment, police and fire administration, planning and zoning, fiscal procedures, local ownership of utilities.

Junior course. Prerequisite: 11-(12).

35. PUBLIC ADMINISTRATION

3 credit hours

A study of major characteristics and problems of the Presidency. The growth of public administration, major problems and trends, types of administrative functions and organizations, foundations of administrative law, forms of administrative action,

* Leave of Absence, Spring Semester.

** Leave of Absence 1958-1959.

the problem of responsibility, fiscal and personnel administration, and other types of administrative control.

Junior course. Prerequisite: 11-(12).

36, (38). COMPARATIVE GOVERNMENT 3 or 6 credit hours

A study of the nature, organization, and operations of a modern European government. The first term places major emphasis on Great Britain and the USSR, while the second semester stresses France, West Germany and Switzerland.

Junior course. Prerequisite: 11-(12), or permission of the instructor.

37. INTERNATIONAL RELATIONS 3 credit hours

An examination of the basic factors affecting relations between states, such as economic, geographic and demographic; the evolution of international relations and the place of power politics in the modern world.

Sophomore course.

(40). PROBLEMS OF STATE GOVERNMENT 3 credit hours

A study and analysis of State government, legislative and administrative. Group sessions and individual research projects will be arranged in Harrisburg, consulting with State officials in selected departments and bureaus.

Junior course. Prerequisite: 11-(12).

41. AMERICAN POLITICAL THOUGHT 3 credit hours

The development of political ideas in America, stressing foreign influences on early Colonial thought and those influences which were indigenous to the growth of American Democracy. Colonial political ideas, the development of the Constitution, the Federalist Papers, State Rights philosophy vs. centralized government and contemporary interpretations are studied.

Junior course. Prerequisite: 11-(12), or permission of instructor. History 17-(18) is desirable.

(44). INTERNATIONAL ORGANIZATION 3 credit hours

A treatment of the organizations through which states have dealt with their common problems in the past; the League of Nations, World Court, International Labor Organization with emphasis on the organization of the post-war world; the United Nations and specialized agencies.

Sophomore course.

*45, (46). CONSTITUTIONAL LAW 3 or 6 credit hours

An analysis of leading Supreme Court interpretations of the Constitution. Emphasis on concepts of judicial review, separation of powers, federalism, interstate commerce, obligation of contracts, due process, equal protection of the laws, political and religious liberty. Introduction to legal research.

Junior course. Prerequisite: 11-(12).

(48). FAR EASTERN GOVERNMENTS AND POLITICS 3 credit hours

The political systems of China and Japan are considered. Major emphasis is put upon the rise and destruction of totalitarianism in Japan, upon revolution in China, and upon the problems arising from the political, economic, and social reconstruction of the Far East. The role of United States of America, British, and Russian interests and policies in the Far East are examined.

Sophomore course.

(50). POLITICAL SOCIOLOGY 3 credit hours

Junior course. See Sociology (50).

51. LATIN AMERICAN GOVERNMENTS 3 credit hours

A study of the constitutions and governments of Latin America with special emphasis on Argentina, Brazil, Chile, and Mexico.

Sophomore course.

(52). INTER-AMERICAN RELATIONS 3 credit hours

A study of the institutions of the Organization of American States, including the constitutional and other aspects of the early nineteenth and twentieth century American Continental Association. The study emphasizes Pan-Americanism and its contemporary significance, achievements, and problems.

Junior course.

53. EVOLUTION OF POLITICAL THOUGHT 3 credit hours

A study of the development and analysis of significant political ideas from the Greek City-State to the eighteenth century. Contributions to modern ideas and trends in government.

Junior course.

(54). RECENT POLITICAL THOUGHT 3 credit hours

Examination of significant political thought concerning the origin, nature, and functions of the State from the Age of Reason to the present. Socialism, Fascism, and Democracy. Emphasis on the conflict between Democracy and Authoritarianism.

Junior course.

(55). POLITICAL BEHAVIOR 3 credit hours

The definition and analysis of human behavior which may be considered political will be studied. Cultural, social, and psychological factors which contribute to forms and directions taken by political behavior will be emphasized, together with leading conceptual approaches and examples from contemporary political affairs.

Junior course. To be given in alternate years. Will be given in 1959-60. Prerequisite: 2 semesters of Political Science and 2 semesters of Psychology or Sociology or the permission of the instructor.

(56). PUBLIC OPINION AND PROPAGANDA 3 credit hours

The formation and control of public opinion in a democracy. Analysis of mass communication (press, radio, film, and TV), propaganda techniques, the causation of social attitudes, and problems of public opinion polling. Also named Sociology (56).

Junior course. Prerequisite: 6 hours of Political Science or Sociology.

57. POLITICAL PARTIES 3 credit hours

A study of the party system in the United States, strengths and weaknesses, functions and techniques of political parties, the electorate, government and political parties, political parties and pressure groups.

Junior course. Prerequisite: 11-(12).

(60). MECHANICS OF AMERICAN FOREIGN POLICY 3 credit hours

An analysis of the machinery through which foreign policy is formed and executed, including a topical study of courses of action open to the United States, non-entanglement, the Good-Neighbor policy, the Monroe Doctrine, the policy of the United States as a member of the United Nations, and the policy of containment, as well as an examination of current problems.

Junior course.

61 or (61). PROBLEMS OF AMERICAN GOVERNMENT 3 credit hours

Basic problems of American Government in relation to national and international events. Designed for non-majors and non-minors in Political Science, the course is intended not only to acquaint students with government organization, but also to reveal enduring problems faced by our government in changing situations.

Junior course. Not open to students who have credit for 11-(12).

(64). INTERNATIONAL LAW 3 credit hours

A study of the fundamental principles of law governing the conduct between states, especially as interpreted and applied by the United States.

Junior course.

93-(94). RESEARCH IN THE SOCIAL SCIENCES 6 credit hours

Senior course. See Social Science 93-(94).

95 or (95). SEMINAR 3 credit hours

A research and conference course required of all senior majors who are not taking 101-(102).

Senior course. Prerequisite: major in Political Science.

101-(102). HONORS COURSE

6 credit hours

Senior course. See index.

Major: 30 semester hours.

Required: Pol. Sci. 11-(12), 53 or (54), 95 or (96), and one course from each of the following groups:

Group 1: Pol. Sci. 33, 35, (41), 45, (46), 50, 57.

Group 2: Pol. Sci. 30, 36, (38), 51, (56), (60).

Group 3: Pol. Sci. 37, (40), (44), (48), (52), (64).

Remaining nine hours optional.

Minor: 18 semester hours, including Pol. Sci. 11-(12).

PSYCHOLOGY

See Education and Psychology

PUBLIC SPEAKING

PROFESSOR SCHECTER*

ASSOCIATE PROFESSOR COUTTS

MR. BRUBAKER

The courses in public speaking are directed toward improvement in verbal communication and toward the development of greater self-assurance and ease in social and professional situations.

*23, (24). ARGUMENTATION AND DEBATE

3 or 6 credit hours

First semester: The psychology and techniques of persuasive speaking; emphasis on the preparation and delivery of persuasive speeches. Second semester: The theory of formal debating; emphasis on participation in classroom debates.

Freshman course.

33 or (33). PUBLIC SPEAKING

2 credit hours

The theory of and practice in the fundamentals of public speaking.

Junior course.

51 or (51). ADVANCED PUBLIC SPEAKING

2 credit hours

A continuation of Public Speaking 33, with emphasis on speech composition.

Junior course. Prerequisite: 33.

* Refresher Leave of Absence 1958-1959.

RELIGION

See Philosophy and Religion

SOCIAL SCIENCE

Interdepartmental offerings in the social sciences: economics, political science, psychology, sociology.

11-(12). INTRODUCTION TO SOCIAL SCIENCE 6 credit hours

Concepts basic to economics, political science, and sociology, are developed. Culture, power, the market, social control, change, communication, and the techniques of social science are emphasized through class discussions, library and field projects. *Freshman course.*

93-(94). RESEARCH IN THE SOCIAL SCIENCES 6 credit hours

An interdisciplinary course to familiarize the students with the latest methods of social research through the undertaking of individual or team research projects in the environs of Carlisle. Each project will involve the application of relevant existing research theories and techniques to the problems studied. Also named Economics 93-(94), Political Science 93-(94), and Sociology 93-(94).

Senior course. Open to seniors majoring in economics, political science, psychology, and sociology. It is also open to juniors majoring in these fields if approved by their departmental chairman and the director of the course. Prerequisite: one year of college mathematics, or Psychology 14.

SOCIOLOGY

PROFESSOR KEPNER

ASSOCIATE PROFESSOR LESLIE

ASSISTANT PROFESSOR ROTHSTEIN

DR. KUHINKA AND MRS. CASPER

30. THE CITY 3 credit hours

Sophomore course. See Political Science 30.

32 or (32). PRINCIPLES OF SOCIOLOGY 3 credit hours

An introduction to the primary concepts of sociology, including culture and personality, groups, communities and social stratification, population trends and human ecology, social institutions, processes of social interaction and the conditions and modes of social change.

Sophomore course. Open to freshmen with permission of instructor.

(33). GROUP DYNAMICS*3 credit hours*

Study of small group behavior, with emphasis upon varieties of group structure, leadership and quality of performance. Some practice in group problem solving and experimentation with techniques for improving performance.

Sophomore course. Given in alternate years. To be given in 1959-60. Prerequisite: 32, or Psychology 11.

34. CULTURAL ANTHROPOLOGY*3 credit hours*

A study of cultural variability and human oneness, including human evolution, race, geographic limitations, ethnology, linguistics, cultural change, personality in relation to culture, and the application of anthropological insights to American society and intercultural relations.

Sophomore course. Prerequisite: Social Science 11-(12), or the permission of the instructor.

35-(36). INTRODUCTION TO SOCIAL WORK*4 credit hours*

Analysis of economic and socio-psychological factors relevant to the development of social work; the structure and function of social work and public welfare in contemporary society; examination of outstanding theories and of methods of case work, group work and community organization. Field trips to social agencies.

Junior course. Prerequisite: 31 or 32, or Psychology 11, or Social Science (12) with a grade of at least C.

35L, (36L). SUPERVISED FIELD WORK*1 or 2 credit hours*

Practical experience in serving agencies in Harrisburg, Carlisle, and vicinity. Students will work under the supervision of the instructor and of the agency supervisor. Four hours field work one afternoon a week.

Junior course. Prerequisite: 35 or concurrent registration in 35-(36) and permission of the instructor.

(47). CRIMINOLOGY*3 credit hours*

A study of the nature, causation and treatment of delinquency and crime. Examination of case histories and statistical studies. Consideration of proposals for the prevention of crime and the improvement of penal procedures. Field trips.

Junior course.

49. POPULATION PROBLEMS*3 credit hours*

The growth, movement and composition of population in the United States and other parts of the world. Natural and social factors affecting the population processes. Social and international implications of changes in the quantity, quality and distribution of population.

Sophomore course. Prerequisite: Social Science 11-12, or permission of the instructor.

(50). POLITICAL SOCIOLOGY

3 credit hours

Social forces affecting the origin of the state and divergent lines of political development. Comparison between democracy and other political systems in respect to quality of participation, the development of personality, social control, social change, and the politico-economic institutional complex. The state in international relations. Also named Political Science (50).

Junior course. Prerequisite: 32.

(56). PUBLIC OPINION AND PROPAGANDA

3 credit hours

The formation and control of public opinion in a democracy. Analysis of mass communication (film, press, radio, and TV); propaganda techniques; the causation of social attitudes; problems of public opinion polling. Also named Political Science (56).

Junior course. Prerequisite: 6 hours of Sociology or Political Science.

57. THE NEGRO AMERICAN

3 credit hours

The historical antecedents, social institutions, achievements, and problems of Negro Americans. The nature and effects of prejudice and discrimination. Current trends in race relations in the United States.

Sophomore course.

(60). CULTURE AND RACE RELATIONS

3 credit hours

Racial differences and cultural variations, colonialism, discrimination, and prejudice, and the major forms of social interaction between ethnic and racial groups. The cultural and racial backgrounds of the current nationalistic movements and social conflicts in Asia and Africa.

Freshman course.

62. METHODS OF SOCIAL RESEARCH

3 credit hours

The study and application of basic methods of social research. Interviewing techniques; participant observation; sampling techniques; the experimental method; the use of the schedule and questionnaire in the study of social attitudes.

Junior course. Prerequisite: 32, or permission of the instructor.

63. THE FAMILY

3 credit hours

A sociological study of the family, comparing family, child-rearing, and sexual customs of preliterate, ancient, and modern societies; recent changes in the American family; culture absorption and personality development of the child within the family; problems of family organization.

Junior course.

(64). PREPARATION FOR MARRIAGE 2 credit hours

A study of dating, mating selection, courtship, and preparation for marriage; conditions favorable to marital adjustment, contrasted with tensions leading to family disorganization; religion, income, mental health, and sex as factors influencing marital adjustment. Emphasis on discussion of student needs.

Junior course. Prerequisite: Permission of the instructor.

65. PEOPLES AND CULTURES OF THE SOVIET UNION 3 credit hours

The major social institutions of the U.S.S.R., as conditioned by Russian traditions, ideology and political power. Ethnic minorities and their cultures. The individual and the state, social stratification, and cultural change.

Sophomore course. Given in alternate years. To be given in 1959-60.

70. SOCIOLOGY OF BUSINESS AND INDUSTRY 3 credit hours

Analysis of formal and informal social interaction patterns as they operate at all levels of business and industrial organizations. Particular attention will be devoted to sociological, psychological and economic forces as they affect such group relationships. Theoretical approaches will be critically analyzed by reference to empirical studies.

Junior course. Prerequisite: 6 hours of Sociology, Economics, or Psychology.

71. SOCIOLOGICAL THEORY 3 credit hours

A systematic analysis of the contributions of major sociological schools of thought to theories of social structure, social dynamics, and social change. Major theorists are explored in depth.

Junior course. Prerequisite: 32.

73, (74). PEOPLES AND CULTURES OF LATIN AMERICA 2 or 4 credit hours

A comparison of Latin American nations in respect to racial composition, social heritage, cultural change, and current problems. Analysis of basic social institutions and description of various types of communities. Major emphasis is given to Argentina, Brazil and Mexico.

Sophomore course. Given in alternate years. To be given in 1960-61.

(76). THE SOCIOLOGY OF RELIGION 2 credit hours

Social aspects of religion and religious aspects of society; the impact of social and ecological forces upon religious organizations; and the role of religion in social control and social change.

Sophomore course. Given in alternate years. To be given in 1959-60. Prerequisite: 31 or 32, or Social Science 11-(12), or permission of instructor.

93-(94). RESEARCH IN THE SOCIAL SCIENCES 6 credit hours

Senior course. See Social Science 93-(94).

101-(102). HONORS COURSE

6 credit hours

Senior course. See index.

Major: 30 semester hours, including 32, 62, 71 and Mathematics 23-(24) or Psychology 14. Six of the 30 semester hours may be taken from the following courses: Economics 21-(22), 53, 76, and (78); English 37, (38), and 67; History 49, (50), 57, (58), and 61, (62); Philosophy and Religion 39, 48, and 53; Political Science 37, 41, (48), 53, and (54); Psychology 23, 37, (38), 41, and 57-(58).

Minor: 18 semester hours, including 32 and at least one of the following courses: 34, (50), 62, 71 or 93-(94).

IV

*Endowed and Named Chairs, Scholarships,
Student Aid, Prizes, Degrees and Honors
Conferred, Register of Students, Alumni
Association and Clubs, Parents
Advisory Council*

Endowed and Named Chairs

THE college has a number of endowed and named chairs. The holders of these chairs are elected by the Board of Trustees and the chairs which they hold are indicated in the faculty list. The endowed chairs are as follows:

THE LEMUEL T. APPOLD FOUNDATION, endowing the chair of the President of the College, was established by the Board of Trustees from a part of the bequest of Lemuel T. Appold of Baltimore, Maryland, of the Class of 1882 and a generous benefactor of the college.

THE ROBERT COLEMAN CHAIR of History. The bequest of Robert Coleman, Esq., of Lancaster, Pennsylvania, was designated by the Board of Trustees in 1828 for the endowment of a professorship, making this one of the oldest American professorships. The professorship was reactivated in 1948.

THE THOMAS BEAVER CHAIR of English Literature was endowed by Thomas Beaver, Esq., of Danville, Pennsylvania in 1889.

THE SUSAN POWERS HOFFMAN CHAIR of Mathematics was endowed in 1923 and named in memory of Susan Powers Hoffman of Carlisle.

THE ASBURY J. CLARKE CHAIR of Latin was established in 1919 by the gift of the widow of Asbury J. Clarke, of the Class of 1863.

THE RICHARD V. C. WATKINS CHAIR of Psychology was endowed in 1928 by the bequest of Richard V. C. Watkins, of the Class of 1912.

THE MARTHA PORTER SELLERS CHAIR of Rhetoric and the English Language is an endowed professorship established in 1936 by a gift of her son, the late Professor Montgomery Porter Sellers, of the Class of 1893.

THE BOYD LEE SPAHR CHAIR of American History was endowed in 1949 by the gift of Boyd Lee Spahr, of the Class of 1900.

THE GEORGE HENRY KETTERER and BERTHA CURRY KETTERER CHAIR of Religion was endowed in 1949 by the gifts of George Henry Ketterer, of the Class of 1908, and his wife, Bertha Curry Ketterer.

THE ROBERT BLAINE WEAVER CHAIR of Political Science was endowed by the bequest of Laura Davidson Weaver, and named for her brother, Robert Blaine Weaver, of the Class of 1874.

THE C. SCOTT ALTHOUSE CHAIR of Chemistry was established in 1950 and named for C. Scott Althouse, a Trustee of the College.

THE ALFRED VICTOR DUPONT CHAIR of Chemistry, named for Alfred Victor duPont, a student at the College, 1814-16, was established in 1950 by the gift of his grandson, Irénée duPont, of Wilmington, Delaware.

THE THOMAS BOWMAN CHAIR of Religion was endowed in 1951 by the gift of the Kresge Foundation (Sebastian S. Kresge, L.H.D., Founder), and named for Thomas Bowman of the Class of 1837, the first graduate of Dickinson College to be elected a Bishop of the Methodist Episcopal Church.

THE HENRY FORD CHAIR of Education was established in 1956 and named for Henry Ford in recognition of the Ford Foundation's selection of Dickinson College in 1954 for the Accomplishment Award for improving the salary and status of the faculty.

THE EDSSEL FORD CHAIR of Economics was established in 1956 and named for Edsel Ford in recognition of the educational statesmanship of the Ford Foundation in its 1954 gifts to privately supported colleges.

A number of other chairs are partially endowed.

Honor Scholarships and Prizes

FOR GENERAL EXCELLENCE IN SCHOLARSHIP

SOPHISTERS. By action of the Board of Trustees, and in keeping with an old Dickinson tradition, the highest-ranking Junior is named Senior Sophister for his final year in college, while the highest-ranking Sophomore is named Junior Sophister for the following year. The distinction of Senior and Junior Sophisters carries with it a full-tuition scholarship.

1958-1959 SENIOR SOPHISTER, Jaak Vilms.

1958-1959 JUNIOR SOPHISTER, Merle E. Tegtmeier.

THE JAMES FOWLER RUSLING PRIZE of \$100, the income augmented, from the \$1,000 gift of General James Fowler Rusling, LL.D., Class of 1854, is awarded to that student of the Senior Class who, at the end of a four-years' course, shall be found to excel in scholarship and character.

Awarded, 1958, to Doris Anne Weigel.

THE WILLIAM K. DARE HONOR SCHOLARSHIP, in memory of William K. Dare, Class of '83, Professor of Education and Psychology, 1893-99, is awarded annually to that male student of the Freshman, Sophomore, or Junior Class who has attained the highest scholastic average in the work of the previous year. For this purpose the late Lemuel T. Appold, Esq., Class of '82, the lifelong friend of Professor Dare, gave the College a capital fund of \$5,000. The scholarship, consisting of \$250, is awarded at commencement time, and is credited to the recipient on tuition the following year.

Awarded, 1958, to Alan N. Rademan.

THE HUFSTADER SENIOR PRIZES, two prizes of \$200 each, one for the Senior man student and the other for the Senior woman student who, in the judgment of the President of the College, have contributed most to the good of the College during the entire four years. These prizes are endowed by a gift by Dr. William F. Hufstader.

Awarded, 1958, to Walter Barnes, Jr. and Virginia M. Wolford.

THE DELAPLAINE MCDANIEL PRIZES.—\$5,000 was given by the late Delaplaine McDaniel, of Philadelphia, as a scholarship fund providing three prizes offered annually to members of the Freshman and Sophomore Classes for excellence in scholarship.

Sophomore Prize, \$100—To Saul Eisenstat.

Freshman Prize, Two Prizes of \$100 each—to Elizabeth A. Keat and Gretchen A. Kuykendall.

THE JOHN PATTON MEMORIAL PRIZES, four in number, of \$25 each, one for each of the college classes, established by the \$2,000 gift of the late Hon. A. E. Patton of Curwensville, as a memorial to his father, Gen. John Patton, for many years a

trustee of the College, are awarded annually for high scholastic standing. Awards for 1958:

Senior Class—to Ann L. Phillips and Walter Barnes, Jr.

Junior Class—to John H. Potts.

Sophomore Class—to Janet L. Matuska.

Freshman Class—to Allan C. Sidle.

FOR EXCELLENCE IN SPECIAL FIELDS

THE RUTH SELLERS MAXWELL SCHOLARSHIPS in English Literature, established in 1945 by the \$5,000 gift of Robert H. Maxwell, of the Class of 1915, in memory of his wife, Ruth Sellers Maxwell, of the Class of 1915, who for many years was a teacher of English Literature, to be awarded annually for excellence in scholarship, for the highest scholastic standing in any course in English literature. Awards for 1958:

Senior Prize, \$100—to Doris Anne Weigel and Morton P. Levitt.

Junior Prize, \$75—to James A. Kenney, III.

Sophomore Prize, \$50—to Merle E. Tegtmeier.

Freshman Prize, \$25—to Paul D. Dorman.

THE WILLIAM LENNOX AVIS PRIZE IN UNITED STATES HISTORY of \$25, the income from a fund of \$450, the bequest of Minnie Woods Avis.

Awarded, 1958, to Alan M. Smith.

THE HENRY P. CANNON MEMORIAL PRIZE, income of a fund of \$500 voted by the Trustees in 1932 in honor of Henry P. Cannon, Class of '70, to continue the award given by him for many years "to that member of the Sophomore Class who shall pass the most satisfactory examination in the Mathematics of the Sophomore year, together with the original Geometry of the Freshman year."

Awarded, 1958, to John F. Shuman.

THE MERVIN GRANT FILLER MEMORIAL PRIZE of \$50, the income from a \$1,000 bequest of Tolbert J. School, of Mechanicsburg, Pa., in memory of Dr. Mervin G. Filler, President of the College, 1928-31, to be awarded annually at Commencement to a student of the College for excellence in the study of the classical languages.

Not awarded, 1958.

THE CHI OMEGA FRATERNITY PRIZE, of \$25, the gift of the Dickinson chapter, is an award made to that Junior or Senior woman who excels in Economics, Political Science, or Sociology.

Awarded, 1958, to Inge Lena Paul.

THE CLASS OF 1902 AWARD. A gold watch made possible by a gift of \$2,500 from the Class of 1902, and awarded annually to that member of the Junior Class who, by the vote of his classmates, shall be adjudged the most all-around Dickinsonian. Established in June, 1927. First awarded in 1928 to John W. McConnell.

Awarded, 1958, to Thomas J. DeMarino.

THE JOSEPH MIDDLETON AND ISABELL MULLIN BURNS MEMORIAL PRIZE of \$50, the annual income from \$1,000, the contribution of their daughter, Mrs. Helen Burns Norcross, Class of 1912 and former dean of women. This award is to be given annually to the woman student who attains the highest scholastic average during the sophomore year.

Awarded, 1958, to Marjorie J. Crowley.

THE JOSEPH CLEMENS PRIZE of \$25, a gift of Joseph Clemens, Class of 1894, Chaplain in the U. S. Army, is awarded annually to a student of the Junior Class for the best essay on foreign missions.

Not awarded, 1958.

THE CHARLES MORTIMER GIFFIN PRIZE IN ENGLISH BIBLE of \$25, the income of a fund of \$500, is awarded annually to a student of the Senior Class of English Bible.

Awarded, 1958, to Mary Lou Kookogey.

THE WILLIAM W. LANDIS MEMORIAL PRIZE IN MATHEMATICS of \$50, the income from a fund of \$1,000 given by his cousin, George G. Landis, of the Class of 1920, in memory of Dr. William W. Landis, Professor of Mathematics from 1895 to 1942, to be awarded for excellence in the mathematics of the Freshman year.

Awarded, 1958, to Gretchen A. Kuykendall.

THE ALICE AND F. CHAPLINE MOOREHEAD AWARD of \$25, the income of a fund of \$500, to be awarded to that member of the Sophomore Class who has shown the most improvement in overall scholastic achievement during his or her Sophomore Year. This award has been presented by Caroline Moorehead Elder in loving memory of her parents.

THE WILBUR HARRINGTON AND HELEN BURNS NORCROSS PRIZE of \$50 created in the will of Helen Burns Norcross, former dean of women, the annual income from a fund of \$1,000, in memory of her husband, Professor Wilbur Harrington Norcross, head of the Psychology Department from 1916 to 1941, to be awarded for excellency in Psychology during the junior year.

Awarded, 1958, to Carolyn C. Gill.

THE SAMUEL L. NORMAN MEMORIAL PRIZE of \$100 in Modern European History presented by Herbert Norman, Class of '55.

Awarded, 1958, to Thomas D. Wright.

THE WELLINGTON A. PARLIN SCIENCE SCHOLARSHIP AWARD of \$100, more or less, the income from a fund being given to the College by Dr. Wellington A. Parlin, Professor Emeritus of Physics, awarded annually to that Junior majoring in Biology, Chemistry or Physics, who has, during the three years at Dickinson College, attained the highest general scholastic average, and is applied to his college account for his senior year. If in any year the student to whom the award is made does not return as a student for the following year, the amount granted him shall then be used by the College for general College purposes.

Awarded, 1958, to Alan N. Rademan.

THE GAYLARD H. PATTERSON MEMORIAL PRIZE of \$25, the income of a fund of \$500, a memorial to Professor Gaylard H. Patterson, the founder of the Social Science Department in the College, to be awarded to that student in Sociology who presents the best sociological analysis of a public policy. The judges of the essay are to be members of the Division of Social Science.

Awarded, 1958, to Roslye R. Ultan.

THE MORRIS W. PRINCE HISTORY PRIZE of \$25, the income of a fund of \$455, the gift of the Class of '99, for excellence in history.

Awarded, 1958, to Francis S. Kaye.

THE MILTON S. REES PRIZE of \$25, the gift of Rev. Milton S. Rees, D.D., Rochester, N. Y., is awarded to that student who shall excel in English Bible.

Awarded, 1958, to Sarah Hollister.

THE WINFIELD DAVIDSON WALKLEY PRIZES of \$25 and \$15, the income of a fund amounting to \$993.16, endowed by D. R. Walkley, D.C.L., in memory of his son, Winfield Davidson Walkley, are awarded as first and second prizes, respectively, to those members of the Freshman Class who shall excel in declamation, either forensic or dramatic.

First Prize, \$25 to James D. Boney.

Second Prize, \$15 to J. Reid Haug.

ANGELINE BLAKE WOMER MEMORIAL PRIZE of \$75, the income of a fund of \$1,500, to be awarded each year to that student of the Freshman Class who attains the highest grade in rhetoric and composition.

Awarded, 1958, to Sandra A. McPherson and Elizabeth A. Keat.

THE LEWIS M. BACON AWARDS of \$75, to be awarded to the freshman, sophomore, or junior, male student and female student from Maryland who, throughout his or her years as an undergraduate of Dickinson College, has shown the highest degree of good citizenship and who, by his or her character, industry, enterprise, initiative, and personal activities, has contributed the most toward campus morale and the prestige of Dickinson College. The Award is provided by the Mary Dickinson Club of Baltimore, Maryland.

Awarded, 1958, to Carol S. Dorsey and James A. Kenney, III.

THE GOULD MEMORIAL DRAMA PRIZES, two permanent trophies, value \$1,200.00, donated by Dr. Herbert M. Gould, in memory of his father, William H. G. Gould, and mother, Myrtle Drum Gould, to be retained by the College, but engraved each year with the name of the man student and woman student who, in the judgement of the President of the College, has made the greatest contribution to the program of dramatic productions of the College, and the sum of \$100.00 to each winner each year.

Awarded, 1958, to Jacqueline A. Carter and Richard E. Van Deusen.

Presidential Scholarships

PRESIDENTIAL SCHOLARSHIPS. By action of the Trustees of the College eight Presidential Full Tuition Scholarships were established in commemoration of the Tenth Anniversary of the Inauguration of President Edel. Four of these scholarships are at large, two are assigned to Carlisle, one to Harrisburg and one to Baltimore. Normally two Presidential Scholarships will be awarded each year. Scholarships once awarded will be renewed each year provided the recipient maintains satisfactory character and scholarship.

Awarded, 1958-1959, to

Shuman, John F.	Junior
Keat, Elizabeth A.	Sophomore
Weigle, William F.	Freshman
Van Zile, Read K.	Freshman

Scholarships and Student Aid

THE college provides several types of assistance for worthy students in financial need. A number of special loan and scholarship funds have been established over the years by friends of the college, awards from which are made by the donors or by the President on the basis of merit and need. Supplementing these funds, the college annually sets aside from its budget a sum to be used for the several forms of student aid described below.

SCHOLARSHIP AWARDS are made to certain outstanding students with due consideration given to need. Dickinson utilizes the College Scholarship Service sponsored by the College Entrance Examination Board. On the regular application form, the applicant indicates an interest in scholarship assistance and the appropriate forms are supplied by the college. Final decisions on requests for assistance are made by the Scholarship and Student Aid Committee of the college.

GRANTS-IN-AID are available to students who offer high promise of usefulness but who have not achieved scholastic distinction. Such awards are restricted to those who cannot meet the full expense of their college program through incidental employment without serious detriment to their academic work.

STUDENT LOANS are available under the terms of Title II of the National Defense Education Act of 1959 (Public Law 85-864) as well as from the College funds listed on pages 150-151.

Financial assistance is normally awarded for the full academic year. The college reserves the right, however, to review individual cases at any time. Normally financial aid is not continued to students on probation. Students

who have received financial aid may count upon its renewal though not necessarily in the same amount or category subject to the following conditions:

1. The attainment of a satisfactory scholastic record;
2. The maintenance of a high standard of conduct;
3. The continued existence of financial need; and
4. The exercise of strict economy.

All students except as noted desiring renewal of financial aid must make application therefor on the "Application for Renewal of Financial Aid" form by May 1. Students whose economic circumstances have changed significantly (over \$500) since the initial award to them of financial assistance by the college must use the form provided by the College Scholarship Service in applying for renewal.

Complete information concerning these several types of financial assistance, including all necessary forms, can be obtained from the Office of the Dean of the College.

Foundation Scholarships

NATIONAL METHODIST SCHOLARSHIPS are available to a number of students. These scholarships are based on recommendation from the pastor of the student's home church, interest and experience in Methodist activities and high scholarship. Applications for these scholarships should be made to the President's Office of the College.

Awarded, 1958-1959, to

Holt, Robert Glenn, Jr.	Sophomore
Keat, Elizabeth Anne	Sophomore
Wickersham, Barry Roland	Sophomore
Rimbach, David Walter	Freshman
York, Lauren David, Jr.	Freshman

THE PITCAIRN-CRABBE FOUNDATION of Pittsburgh, Pennsylvania, has made available two scholarships of \$300.00 each, to be awarded annually by the President of the College on the basis of need and promise, to students who are the sons or daughters of clergymen, teachers, public servants, or other persons who are engaged in serving the public welfare.

Awarded, 1958-1959, to

Bell, Deanne M.	Junior
Hermann, Michael J.	Sophomore

THE GENERAL MOTORS CORPORATION has made available one 4-year scholarship for a student in each entering class. The value of these scholarships depends on the need of the students selected, not to exceed \$2,000 per year. Scholarships will be awarded on a competitive basis and application for them should be made to the Dean of Admission.

1955-1959: Jack H. Gardner
1956-1960: Charles E. Wisor

1957-1961: Stanley W. Lindberg
1958-1962: Karl Green

Endowed Scholarships

THE BALDWIN MEMORIAL CHURCH SCHOLARSHIP FUND of \$1,000, established in 1917.

THE BEAVER MEMORIAL METHODIST CHURCH, Lewisburg, Pa., scholarship of \$50, established in 1942.

THE M. GRACE BECHTEL MEMORIAL—The interest on a \$1,000 endowment to be paid annually to that student of the College who is preparing for entrance into the Christian ministry of the Central Pennsylvania Conference of the Methodist Church.

THE BODINE SCHOLARSHIP of \$50, established in 1907 by the \$1,000 gift of George I. Bodine, Jr., Esq.

THE GEORGE L. BROWN FUND, established under the will of the late George L. Brown, M.D., of Lucknow, Pa., amounting to \$22,500, provides that the income be applied to the tuition in order of preference, first, of male students from Middle Paxton Township, Dauphin County, Pa.; secondly, of male students from Susquehanna Township, Dauphin County, Pa.; and lastly, of other worthy and eligible boys.

CENTRAL PENNSYLVANIA METHODIST CONFERENCE SCHOLARSHIP FUND, the income to be used as scholarships for members of churches of the Central Pennsylvania Methodist Conference.

THE CLASS OF 1909 SCHOLARSHIP FUND, the interest on an accumulating fund which was presented to the College on the thirty-fifth reunion of the class, and, on June 30, 1946, amounted to \$1223.11, available in the form of scholarship-loan aid to students by appointment of the President of the College, preference to be given to any descendant of a member of the Class of 1909.

THE CLASS OF 1914 SCHOLARSHIP, the interest on an accumulating fund which was presented to the College on the 25th reunion of the class, and on June 30, 1956, amounted to \$3,000.00 available in the form of scholarship aid to students, by appointment of the President of the College.

THE CLASS OF 1915 SCHOLARSHIP, the interest on a fund presented to the College on the thirtieth reunion of the class on June 3, 1945, amounting to \$3,000, available in the form of scholarship aid to students by appointment of the President of the College, preference to be given to any descendant of a member of the Class of 1915.

THE CLASS OF 1917 SCHOLARSHIP, the interest on a fund presented to the College on the thirtieth reunion of the Class on June 7, 1947, amounting to \$3,000, to be awarded annually by the President of the College, preference to be given to any descendant of the Class of 1917.

THE CLASS OF 1918 SCHOLARSHIP, the interest on a fund presented to the College on the thirtieth reunion of the Class on June 5, 1948, amounting to \$2,068, to be awarded annually by the President of the College, preference to be given to any descendant of the Class of 1918, and when unassigned, to be used for the operating costs of the College.

THE CLASS OF 1921 SCHOLARSHIP, the interest on a fund presented to the College on the twenty-fifth reunion of the class on June 8, 1946, amounting to \$2,350, to be awarded by the President of the College, preference to be given to any descendant of the Class of 1921.

THE CLASS OF 1922 MEMORIAL FUND, the interest on a fund presented to the College on the twenty-fifth reunion of the Class on June 7, 1947, amounting to \$1,208, the income to be used for such college purposes as the President of the College shall consider to be the greatest need with preference first to the library and then to scholarship grants.

THE CLASS OF 1928 SCHOLARSHIP, the interest on a fund presented to the College on the twenty-fifth reunion of the class in June, 1953, amounting to \$3,832, to be awarded annually by the President of the College, preference to be given to any needy descendant of the Class of 1928, and when unassigned to be used for such college purposes as the President of the College shall consider to be the greatest need.

THE CLASS OF 1930 SCHOLARSHIP, the interest on a fund presented to the College on the twenty-fifth reunion of the class in June 1955, amounting to \$3,100, to be awarded annually by the President of the College, preference to be given to any needy descendant of the Class of 1930.

THE JOSEPH AND MARY STRONG CLEMENS SCHOLARSHIP FUND of \$2,500 was established in 1934 by Joseph Clemens, Class of 1894, the income therefrom to be used as scholarship or scholarship-loan aid for the benefit of students of the College who are students for the ministry of the Methodist Church to be selected by the President of the College as needy and worthy.

CARRIE A. W. COBB SCHOLARSHIP FUND of \$5,000, in memory of the Reverend Charles H. Rorer, D.D., because of his abiding interest in the College, his Alma Mater, the income of which is to be awarded by the College to aid students preparing for the ministry.

THE ELEANOR COOPER SCHOLARSHIP FUND of \$5,000, established in 1952, The Dickinson Club of New York may from time to time nominate recipients of such scholarship.

THE NATHAN DODSON CORTRIGHT MEMORIAL SCHOLARSHIP FUND of \$5,000 established by Mrs. Emma L. Keen, of Philadelphia, as a memorial to her father, Nathan Dodson Cortright, is used to aid young men preparing for the ministry.

S. ADELBERT DELUDE SCHOLARSHIP of \$50, established in 1956 by a \$1,600 grant from his estate. In awarding this scholarship preference is given to a student from the New York area.

THE SMITH ELY SCHOLARSHIP, endowed in 1910 by the Hon. Smith Ely, of New York City, in the sum of \$1,100, students from New York City and vicinity having prior claim.

THE WILLIAM SCHUYLER EVES MEMORIAL SCHOLARSHIP FUND of \$7,000 established in 1956. The annual income to be used for the education of needy and worthy young men who are members of the Jenkintown Methodist Church,

Jenkintown, Pa. The young men to be selected by the President of Dickinson College and the Minister of the Jenkintown Methodist Church.

THE ROBERT M. FERGUSON, JR., MEMORIAL SCHOLARSHIP FUND of \$2,000, the gift of Grace C. Vale, of the class of 1900.

THE FREEMAN SCHOLARSHIP of \$50, established by the \$1,000 gift of Frank A. Freeman, Esq., of Philadelphia.

THE MELVILLE GAMBRILL MEMORIAL FUND of \$50,000, the gift of Melville Gambrill, of Wilmington, Delaware, a former trustee of the College, the income from which is used to provide education for young men preparing for the ministry.

THE JOHN GILLESPIE MEMORIAL SCHOLARSHIP, interest on \$1,000, the gift of Miss Kate S. Gillespie, daughter of John Gillespie, Esq., late of Philadelphia, in 1911, as a memorial to her father.

THE EDNA GRACE GOODYEAR MEMORIAL FUND of \$5,000, established by the late Samuel M. Goodyear, for many years a Trustee of the College, the income therefrom to be awarded annually by the President of the College to a needy and worthy student, first, of students from Carlisle, Pennsylvania; secondly, of students from Cumberland County; and lastly, of other worthy and eligible students.

THE JOHN H. HACKENBERG SCHOLARSHIP was endowed in 1940 by the gift of \$2,000, by the Rev. John H. Hackenberg, D.D., and his wife, the interest to go annually to help some worthy young man preparing for the Methodist ministry.

THE HAVERSTICK AND SNAVELY SCHOLARSHIP, income from an annuity fund of \$1,000, designated for endowment of a scholarship in 1910.

THE J. FRED HEISSE SCHOLARSHIP FUND of \$2,500 was established in 1925 by his brother, E. W. Heisse, of Baltimore. The proceeds of the fund are awarded from year to year to such student or students as may be named by the donor, or on his failure to nominate, by the President of the College.

THE HONORABLE E. FOSTER HELLER SCHOLARSHIP FUND of \$5,000, established by Anna C. Halsey, the income to be given each year, at the discretion of the President of the College, to such boy or boys of scholastic attainment and of good character who need help for the successful continuance of their course in College.

THE HORN SCHOLARSHIP, income from \$1,000, contributed in 1917 by J. Edward Horn, of Philipsburg, Pa., to be awarded to some worthy student of the College preparing for useful service.

THE BRUCE HUGHES SCHOLARSHIP. Established in 1917. The income from \$950.

THE WILLIAM ALBERT HUTCHISON SCHOLARSHIPS, the income from a fund of \$3,000, presented to the College by the Conway Hall Alumni Association on June 7, 1947, in memory of Dr. William A. Hutchison, headmaster of Conway Hall Preparatory School, to be awarded by the President of the College, preference to be given to descendants of former students of Conway Hall,

THE CHARLES H. B. KENNEDY MEMORIAL SCHOLARSHIP FUND, the income from \$1,000, given by members of the "D" Club in memory of Professor Charles H. B. Kennedy.

THE MERKEL LANDIS SCHOLARSHIP FUND of \$6,000, established in 1958. The income to be awarded annually by the President of the College to a needy and worthy student, first, of students from Carlisle, Pennsylvania; secondly, from students from Cumberland County; and lastly, of other worthy and eligible students.

THE ALBANUS CHARLES LOGAN MEMORIAL SCHOLARSHIP FUND of \$5,259, the gift of Maria Dickinson Logan, of Philadelphia, the income to be used as a scholarship at the College for some worthy young man, preference being given to a graduate of the Germantown High School.

THE HENRY LOGAN SCHOLARSHIP FUND of \$4,200, the gift of Henry Logan, of the Class of 1910, of Brooklyn, N. Y., the income therefrom to be awarded annually by the President of the College to a needy and worthy student upon the recommendation of the donor during his lifetime.

THE RICHARD H. McANDREWS SCHOLARSHIP, the income from a fund of \$1,096, presented to the College on June 7, 1947, by the Wearers of the "D" to create a memorial to Associate Professor Emeritus R. H. McAndrews of the Department of Physical Education, to be awarded annually by the President of the College.

THE CHARLES WATSON McKEEHAN SCHOLARSHIP FUND of \$8,425.11, established under the wills of Mary A. McKeehan and Charles L. McKeehan in memory of their husband and father, Charles Watson McKeehan, of the Class of 1867, a trustee of the College 1879-1895.

C. H. MASLAND & SONS SCHOLARSHIPS, established in 1945 by the \$20,000 gift of C. H. Masland & Sons, manufacturers, of Carlisle, Pa., awarded annually with preference given to children of employees of C. H. Masland & Sons, then to residents of Carlisle or adjacent territory, and lastly to any other needy and worthy student.

THE ARTHUR MILBY SCHOLARSHIP of \$50, established in 1911 by the \$1,000 gift of Miss Mary R. Burton, for the education of worthy young men for the ministry.

THE THEODORE F. MILLER SCHOLARSHIP of \$50, the income from the \$1,000 gift of Theodore F. Miller, Esq., of Philadelphia in 1928.

THOMAS MONTGOMERY SCHOLARSHIP FUND of \$6,030, the gift of Colonel Robert H. Montgomery, LL.D., in memory of his father, Thomas Montgomery, a member of the Class of 1851.

THE MARLIN E. OLMSTED SCHOLARSHIPS, established in 1925 by Mrs. Marlin E. Olmsted (Mrs. Vance C. McCormick) in memory of her late husband, Marlin E. Olmsted, an honorary alumnus of the College. The scholarships, the proceeds of a capital fund of \$5,000, shall be given each year in the discretion of the President of the College, to such students of good mind, good character, and studious habits as seem to need them for the successful continuance of their course in College.

THE VALERIE SCHALL SCHOLARSHIP of \$75, proceeds of a \$1,500 fund, is used in assisting such young men as in the estimation of the President and Faculty of the College, are of good character, scholarly habits, and deserving of assistance, and who are approved candidates for the Methodist ministry.

THE CHARLES T. SCHOEN SCHOLARSHIPS, ten in number, of \$50 each, established by the \$10,000 gift of the late Charles T. Schoen, of Philadelphia, are awarded annually to such young men and women as the President may designate.

THE ARNOLD BISHOP AND MARY AGNES SHAW SCHOLARSHIP, the annual income from \$1,250, the contribution of their children, Miss Clara W. Shaw, Mrs. Bertha Shaw Nevling, Mrs. Jeanne Shaw Bailey, Calvin Bishop Shaw, Charles M. Shaw. The donors may designate annually some worthy young person in the College in need of financial help.

JAMES ROSS SNOWDEN SCHOLARSHIP FUND, created in the will of Mary T. Snowden Stansfield, of Philadelphia, Pa., by the bequest of \$10,000 for the endowment of a scholarship of law in memory of her father, the son of the Rev. Nathaniel Randolph Snowden, a trustee of the College from 1794 to 1827.

THE WILLIAM M. STAUFFER SCHOLARSHIP FOUNDATION, the bequest of \$950 of W. M. Stauffer, of Reading, Pa., in 1917, "to be invested as a special scholarship endowment, the income to be used for the benefit of some deserving student."

THE CAPTAIN JOHN ZUG STEESE SCHOLARSHIP, the interest on a \$1,000 endowment, the gift of his mother, Mrs. Anna Zug Schaeffer Steese, of Mt. Holly Springs, Pa., who has sent four sons to Dickinson, all of whom later served their country with distinction as commissioned officers of the army during the World War; to be awarded annually by the President of the College to some young man who has completed his Sophomore year in the upper third of his class, excelling especially in mathematics; who has engaged successfully in athletics, music, dramatics, or other extra-curricular activities and to whom financial aid would be real assistance in helping him to continue his college course. The recipient shall write a brief note of acknowledgment to the donor or to her estate outlining his previous education and experience.

THE ALBERT AND NAOMI WATSON SCHOLARSHIP FUND of \$3,000, the gift of Mr. and Mrs. Albert Watson, of Carlisle, Pa., the income therefrom to be awarded annually by the President of the College to a needy and worthy student, preference to be given to a resident of Carlisle.

THE M. WILLIAM WEDELL SCHOLARSHIP FUND of \$15,000, established in 1948 through a gift of Meta Hofer, of Brooklyn, N. Y., in memory of her brother, M. William Wedell. The income therefrom is assigned annually in the form of a scholarship or several scholarships by the President of the College and when unassigned is used for the operating needs of the College.

M. HELEN LEHMAN WHITMOYER MEMORIAL FUND of \$1,000, the gift of Raymond B. Whitmoyer of the Class of 1913 in memory of his deceased wife, M. Helen Lehman Whitmoyer of the Class of 1911.

THE ELLA STICKNEY WILLEY SCHOLARSHIP of \$50, established by the \$1,000 gift of Mrs. Ella Stickney Willey, of Pittsburgh, Pa., is awarded annually to such students as may be designated by the donor or by the President.

THE ANNIE WINDOLPH SCHOLARSHIP FUND of \$10,392, established by the bequest of Annie Windolph, the income of which is available to a student or students taking pre-dental work.

THE REV. WILLIAM WOOD SCHOLARSHIP of \$100, the income from the \$2,000 gift of Miss Sarah Wood, of Trenton, N. J., is awarded annually to such student as may be designated by the donor or by the President.

JOHN L. YARD SCHOLARSHIP FUND received in 1945 by a bequest totalling \$4,172.94 to establish three memorial scholarships in memory of testator's wife, Emmeline Matilda Van Rensselaer Yard, to be given each year at the discretion of the President of the College to students of good mind, good character and studious habits, preference to be given to students desiring to enter the ministry who seem to need financial aid for the successful continuance of their courses in college.

THE CHARLES K. ZUG MEMORIAL FUND.—A fund of \$5,366 given in January 1930, by the late Lemuel Towers Appold, Esq., Class of 1882, of Baltimore, in memory of his intimate friend, Charles K. Zug, of Philadelphia, Class of '80, Phi Beta Kappa, a member of the Alumni Council, and for many years a faithful friend and trustee of the College. The income from this fund to be used at the discretion of the President in granting scholarship aid to worthy young men students.

Unendowed

THE DICKINSON CLUB OF WASHINGTON SCHOLARSHIPS of \$150 each are provided by current gifts of alumni and candidates are nominated by officers of the club.

Not awarded 1958.

THE PROFESSOR FRIEDRICH SANDELS SCHOLARSHIP of \$500, established in 1936 by Dr. Donald H. Foster, of the Class of 1949, to be awarded annually by the President of the College to a needy and worthy student, with preference to be given to a resident of the South Jersey area upon nomination by the donor.

Not awarded in 1958.

Loan Funds

In addition to student loans from the funds listed below, student loans are available under the terms of Title II of the National Defense Education Act of 1958 (Public Law 85-864).

THE CORNELIA C. THUMM FUND, \$950, the legacy of Mrs. Cornelia C. Thumm, of Philadelphia, 1896, the annual interest on which is to be used for the benefit of some needy student or students of the College, the conditions of appointment and the selection of beneficiaries to rest with the President.

THE EMILY MAY PHELPS ATWOOD LOAN FUND, of \$6,051.50, established in 1942 by her parents, Mr. and Mrs. Andrew H. Phelps, to aid worthy students.

THE CLARA RIEGEL STINE FUND of \$4,457.26, the legacy of Clara Riegel Stine, of Mechanicsburg, Pa., held in trust by the Pennsylvania Company for Insurances on Lives and Granting Annuities of Philadelphia, to be used to assist in education of needy and worthy students studying for the ministry of the Methodist Church, under a loan plan.

MARIA ELIZABETH VALE STUDENTS' SELF-HELP FUND.—The income from a fund of \$30,000, the gift of Ruby R. Vale, Esq., of the Class of '96, in memory of his daughter, now deceased; because of his affection for his Alma Mater, and of his desire to aid worthy students at the College needing temporary help. Administered by the President with permission to lend \$250 per year to an individual, but not to exceed \$1,000 to anyone during the College course.

AMERICAN BANKERS ASSOCIATION FOUNDATION FOR EDUCATION IN ECONOMICS LOAN SCHOLARSHIP.—One loan scholarship of \$250 per year. Consult the Treasurer of the College.

BOARD OF EDUCATION OF THE METHODIST CHURCH STUDENT LOAN FUND.—Open to members of that Church of at least one year's standing, \$200 in the Freshman year, \$250 in the Sophomore year, \$300 in the Junior year, and \$350 in the Senior year. The total borrowings must not exceed \$1,500. Consult the Treasurer of the College.

CENTRAL PENNSYLVANIA CONFERENCE LOAN FUND.—Consult the Treasurer of the College. The maximum per year for a student is \$200, and the total amount loaned to any one person is limited to \$800, during the college course. Five cash scholarships per year of \$100 each are also available from this fund.

LOAN FUND OF THE HARRISBURG ALUMNAE CLUB.—The sum of \$50 given in May, 1932, as the beginning of a revolving fund, to be applied to the aid of deserving students who are in need of assistance in meeting their college expenses.

THE PRESIDENT'S LOAN FUND.—A fund for temporary small loans in cases of emergency. The principal of the fund, contributed by the alumni, is used as directed by the President of the College.

Student Employment

Opportunities are available for a number of students to meet part of their expenses by regular work in certain of the college offices and facilities. The award of a scholarship, grant-in-aid, or loan does not preclude the student's receiving part-time employment through the college. Applications for such positions may be made to the Treasurer, who will certify the request in accordance with the student's need and abilities and the positions available.

Students of the College may be eligible for other loan funds which are not administered by the College. Information concerning such funds can be given by the College Treasurer.

Degrees Conferred by the College

SPECIAL CONVOCATION, March 18, 1958

Honoris Causa

ARTHUR MERRILL ALLYN*Doctor of Humane Letters*

SPECIAL CONVOCATION, April 15, 1958

Honoris Causa

ELIZABETH BOWEN*Doctor of Letters*
(Elizabeth Dorothea Cole Cameron)

COMMENCEMENT, June 1, 1958

I. Honoris Causa

EDGAR ANDREW HENRY*Doctor of Divinity*
E. ROGER SAMUEL*Doctor of Science*
PAUL V. LEMKAU*Doctor of Public Health*
ANDREW WYETH*Doctor of Art*
CONYERS READ*Doctor of Letters*
GEORGE KENNETH HOLLAND*Doctor of Humane Letters*
ARTHUR B. LANGLEIE*Doctor of Humane Letters*

II. In Cursu

A.B.—BACHELOR OF ARTS

Adams, WardCamp Hill
Asato, HajimeKitanakagusuku, Okinawa
Bachman, Charles Russell, Jr.Wayne
Barnes, Walter, Jr.Philadelphia
Bergman, Jettie LouisePittsburgh
Bergquist, Barbara EdithFt. Dix, N. J.
Bertolini, Vincent AnthonyWayne
Biddle, Barbara AnneWatsonstown
Bradley, Katharine ScottPort Washington, N. Y.
Brockelbank, Marietta CadeNewtown
Byron, Leo ChristopherYork
Carlton, Jack WarnePunxsutawney
Carpenter, Mary CarolynJohnstown
Carter, Jacqueline AnneMt. Holly Springs
Compton, Meredith AnnLinglestown
Conrad, Frederick LarueSunbury
Corey, William SanfordBaltimore, Md.

D'Esposito, Janet Carol	Asbury Park, N. J.
Ebner, George Howard	Harrisburg
Evans, Harry Wesley, Jr.	Mountain Lakes, N. J.
Ewing, James F.	Oreland
Finkey, Gwendoline M.	Mechanicsburg
Focht, John Carl	Shillington
Fox, James Philip	Norristown
Gardner, Robert Charles	Wilmington, Del.
Gery, Philip Comley	Wyomissing
Greensides, Mary Carolyn	Washington, D. C.
Greer, Constance Ann	New Kensington
Hankins, Kenneth Elwood, Jr.	Carlisle
Hartman, Carl Odette	Pennington, N. J.
Heck, William Henry	Dauphin
Herr, Phillip Cameron, II	Lansdowne
Herrmann, Christine Ann	Springfield
High, Ronald Carlton	Washington, D. C.
Hiltner, Carol J.	Harrisburg
Hollinger, James Larry	Littlestown
Holt, Jean C.	Fair Haven, N. J.
Horner, Leon Irving	Bridgeton, N. J.
Howarth, Benjamin, III	Glenside
Hummel, Cleveland Clinton	Bloomsburg
Hyman, Richard Nelson	Baltimore, Md.
Joyce, Jerry Haines	Sneads, Fla.
Kaye, Francis S.	Mt. Carmel
*Kaplan, Robert D.	Philadelphia
Kline, Robert Cornelius	West Lawn
Kokolis, Kiki A.	Carlisle
Kookogey, Mary Lou	Carlisle
**Kosove, Joseph Anthony	Philadelphia
Levitt, Morton Paul	Brooklyn, N. Y.
Lintner, Alfred Carl	Haddon Heights, N. J.
McCreary, Karen Dee	Baltimore, Md.
Mayer, Arthur Charles, Jr.	Mount Joy
Mentzer, Nancy Eleanor	McConnellsburg
Miller, Carl Wallace	Pittsburgh
Miller, Daren Lane	High Rock
Miller, Kay Francis	Bridgeton, N. J.
Mimm, Hilma W.	Wynnewood
Mohler, Barbara Blackburn	Ardmore
Morris, John F., Jr.	North Wales
Otto, Wilbur McCoy	Wexford
Palmer, Suzanne Hoopes	Ridley Park
Parker, Robert Stanley	Kingston
**Parkins, Charles Richard	Roscoe
Paul, Inge Lena	Bellport, N. Y.
**Pennewill, Wilbur Zacharias	Carlisle
Phillips, Ann Louise	Lancaster
Platts, Jane	Collegeville

* Graduated as of February 3, 1958.

** Graduated as of Class of 1957.

Pullis, Barbara Lou	Binghamton, N. Y.
Rambo, Sylvia H.	Carlisle
Razzano, Joseph John	Bradford
Richardson, Betty Jane	Silver Spring, Md.
Riley, John David, IV	Savannah, Ga.
Roschy, Dorcas Adrian	Carlisle
Rose, Samuel Gary	Baltimore, Md.
Runkle, Walter Davis	Middleburg
Saunders, Anna Lee	Bethel Park
Seewald, J. Ronald	Linden
Seidel, Carole Spring	Wilmington, Del.
Shaffert, Charles Frederick	Philadelphia
Sharp, Peter Joseph	Carlisle
Shiner, Patricia M.	Allentown
Smith, Susan Carol	Baltimore, Md.
Solomon, William Vernon	Arlington, Va.
Stepler, Paul Frederic	St. Thomas
Stetts, Joseph Jerome, II	Williamsport
Strickler, Robert Mark	York
Taylor, Robertson Blalock	Bethlehem
Thomas, Barbara Jean	East Greenbush, N. Y.
Thompson, Donald Carlton	Toms River, N. J.
Townsend, Patricia Ann	Denton, Md.
Trunzo, Francis James, Jr.	Punxsutawney
Turner, Sandra Ruth	Chester
Ultan, Roslye Rita	Carlisle
Van Deusen, Richard Elliott	Plainfield, N. J.
Van Olst, Marion G.	Hawthorne, N. J.
Walker, Thomas Wilson	Harrisburg
Warfield, Monica Camilla	Rockville, Md.
Watson, Robert Alexander	Annapolis, Md.
Weaver, G. Raymond	Altoona
Weigel, Doris Anne	Carlisle
Werner, Doris Lee	Drexel Hill
Wiest, Peter Van Houten	Springfield
Wilder, Jeanne Louise	Lebanon
**Wood, Donald Paul	Eldred
Woodruff, David Alfred	Springfield
*Woodward, Anne Boyer	Johnstown

SC. B.—BACHELOR OF SCIENCE

Alderfer, Evan Benner, Jr.	Drexel Hill
Altaker, Lawrence Lewis	Collingswood, N. J.
Arking, Robert	Atlantic City, N. J.
Bair, Harvey Edward	Williamsport
Barr, T. Carey, Jr.	Claymont, Del.
Bartoli, Mario Robert	Carlisle
Black, William Edward	Palmyra
Bloss, Elizabeth Ann	Hazleton

* Graduated as of February 3, 1958.

** Graduated as of Class of 1957.

Brown, Nancy Adelaide	Ramsey, N. J.
Brown, Nancy June	Wayne
Bruce, Agnes Helen	Havertown
Bulken, Leslie Hope Jopson	Bridgewater, Va.
Dhuy, Lillian Jane Buirkle	Park Ridge, N. J.
Frehn, John Lee	Harrisburg
Gaither, Herbert	Cumberland, Md.
Gerber, Paul Hontz	Summit Hill
Gilpin, John B.	Marysville
Hanna, Linda	Valencia
Heine, Jean Louise	Shillington
Holtz, Jane M.	Harrisburg
Jacobson, Joel Jay	Cumberland, Md.
***Junginger, G. William, Jr.	Philadelphia
Kendall, Francis McGill	Linden, N. J.
Kienzle, George Edward	Nanticoke
Kottcamp, Jean Anne	Marietta
Lane, Ronald Robert	Philadelphia
Little, Pearl Evangeline	Ocean Grove, N. J.
Lush, Norman Parker, Jr.	Audubon, N. J.
McGee, Glenn Thomson	Williamsport
Marcus, Mark Ivan	Vineland, N. J.
Miller, Norman David	Atlantic City, N. J.
Mulholland, Stanford Grant	Wynnewood
O'Neill, Donald	Baltimore, Md.
Parlin, Harold Saul	Margate City, N. J.
Roberts, Brenda Naomi	Highland Park, N. J.
Roberts, Peter John	Mamaroneck, N. Y.
Rodriguez, Victor Fernando	Indian Rocks Beach, Fla.
Rogers, William Edwin	Carlisle
Schaefer, Louis Frederick, Jr.	Carlisle
Shanaman, Richard H., Jr.	Danville, Ky.
Shoun, Carolyn Sue	Oxford
Sieck, Margaret Louise	Millville, N. J.
Steinberg, J. Arthur	Wyncote
Stott, Phillip Bruce	Rosemont
Sutton, Russel Morrow	Carlisle
Tantum, Kermit Robert	Deans, N. J.
Toy, Herbert John	Chadds Ford
**Urbanski, Francis Xavier	Perth Amboy, N. J.
Watt, John Everett	Oxford
Wiley, John, Jr.	Westfield, N. J.
Wolford, Virginia May	Reading

** Graduated as of Class of 1957.

*** Binary Program, University of Pennsylvania.

Honors Conferred, 1958

SUMMA CUM LAUDE

Morton Paul Levitt

Doris Anne Weigel

MAGNA CUM LAUDE

Barbara Edith Bergquist
Kay Francis MillerInge Lena Paul
John Everett Watt

CUM LAUDE

Walter Barnes, Jr.
Leo Christopher Byron
Meredith Ann Compton
William Sanford Corey
Gwendoline May Finkey
Benjamin Howarth, III
Joseph Anthony Kosove
Robert Stanley ParkerCharles Richard Parkins
Ann Louise Phillips
Sylvia Hilda Rambo
Peter John Roberts
Charles Frederick Shaffert
Carolyn Sue Shoun
Paul Frederic Stepler

HONORS IN SPECIAL DEPARTMENTS

Walter Barnes, Jr. (Economics)
Gwendoline May Finkey (Economics)
Benjamin Howarth, III (Economics)
Morton Paul Levitt (English)
Kay Francis Miller (English)
Wilbur McCoy Otto (Economics)
Inge Lena Paul (Political Science)
Ann Louise Phillips (Biology)
Barbara Lou Pullis (English)
Sylvia Hilda Rambo (Political Science)
Doris Anne Weigel (English)

SENIOR SOPHISTER, 1958-1959

Jaak Vilms

JUNIOR SOPHISTER, 1958-1959

Merle E. Tegtmeier

ELECTED TO PHI BETA KAPPA

Barbara Edith Bergquist
*Morton Paul Levitt
Kay Francis MillerInge Lena Paul
John Everett Watt
*Doris Anne Weigel

* Elected September 30, 1957.

COMMISSIONED SECOND LIEUTENANT USAR, 1958

Henry W. Adams	Infantry
Harvey E. Bair	Artillery
Mario R. Bartoli	Artillery
William E. Black, Jr.	Infantry
Frederick L. Conrad	Infantry
James F. Ewing	Infantry
**William H. Heck	Infantry
Leon I. Horner	Infantry
Jerry H. Joyce	Infantry
Francis S. Kaye	Infantry
Francis M. Kendall	Infantry
Arthur C. Mayer, Jr.	Infantry
Wilbur M. Otto	Finance Corps
Robert S. Parker	Armor
John D. Riley, IV	Infantry
Peter J. Roberts	Ordnance Corps
William E. Rogers	Infantry
Samuel G. Rose	Infantry
*Dick T. Schafer	Infantry
William V. Solomon	Artillery
**P. Frederic Stepler	Quartermaster Corps
Joseph J. Stetts, II	Infantry
George R. Weaver, Jr.	Infantry
Peter V. Wiest	Infantry

* Commissioned July 1958.

** Commissioned August 1958.

ROTC AWARDS, 1958

THE JOHN DICKINSON SABER AWARD

George Raymond Weaver

THE ASSOCIATION OF THE U.S. ARMY AWARD

Wilbur M. Otto
Thomas J. DeMarino

THE SOJOURNERS AWARD

Maurice Wallack

THE CHICAGO TRIBUNE AWARDS

Senior First Prize (Gold)	Robert S. Parker
Senior Second Prize (Silver)	Jerry H. Joyce
Junior First Prize (Gold)	John M. Scarborough
Junior Second Prize (Silver)	Everett E. Gottschall

MERITORIOUS SERVICE PLAQUE

Jerry Haines Joyce

THE SONS OF THE AMERICAN REVOLUTION ROTC MEDAL AWARD

HENRY L. W. NUTTLE

SUPERIOR CADET RIBBON AWARD

Won by:

Senior	Jerry H. Joyce
Junior	Ned Bosnick
Sophomore	Neal W. Lovsnes, Jr.
Freshman	Michael J. Hermann

RESERVE OFFICERS ASSOCIATION CADET AWARD

Alexander T. Collins, III

Register of Students

STUDENTS FROM OUTSIDE THE UNITED STATES OF AMERICA

Dickinson College each year, welcomes a number of students from outside the United States of America. Those who are on the campus for the years 1958-1959 include:

Abendong, Zacharia A.	British Cameroons
Andolf, Goran N.	Linkoping, Sweden
Avakian, Yoorik S.	Teheran, Iran
Bond, Carole R.	Aruba, Netherlands Antilles
Chun, Chu Hwa.	Soeul, Korea
Dollar, Robert W.	Maracaibo, Venezuela
Engelke, Judith E.	Balboa Heights, Canal Zone
Fernandez, Ronald J.	San Jose, Costa Rica
Garcia, Sergio E.	Aguascalientes, Mexico
Jalsovicsky, Steven.	Nagykoros, Hungary
Ly, Luong.	Battambang, Cambodia
Nomura, Tomohide.	Tokyo, Japan
Orlich, Ricardo J.	San Jose, Costa Rica
Ramos-Umpierre, Antonio.	Santurce, Puerto Rico
Rey, Jean P.	Saone et Loire, France
Schulte, Rainer O.	Johann-Trarbachstr, Germany
Sjamsuridjal, Muljono.	Djakarta, Indonesia
Takacs, Julius M.	Bagyog, Hungary
Tar, Irene.	Budapest, Hungary
Tar, John.	Budapest, Hungary
Trejos, Manuel E.	San Jose, Costa Rica
Wellington, C. Ann.	Colombia, South America

Register of Students

Seniors

Adams, Russell B., Jr.	Silver Spring, Md.
Adnopo, Efrim.	Hamden, Conn.
Albert, J. Carolyn.	Fort Monmouth, N. J.
Alley, Elaine E.	Berwick
Altman, Martin.	Hurleysville, N. Y.
Ambacher, Jane L.	Abington
Armocost, Robert W.	Mount Wilson, Md.
Awad, Mary E.	Tenafly, N. J.
Bardsley, Elizabeth H.	Narberth
Barndt, Marcia G.	Wyomissing
Barranger, John J., Jr.	Springfield
Bartges, David W.	Wilmington, Del.
Benner, Claude H.	Coatesville
Berger, Norman G.	Bristol
Bernstein, George H.	Pikesville, Md.
Bernstein, Saralee S.	Pikesville, Md.
Black, Edward.	Philadelphia

Block, Richard R.	Philadelphia
Blumenfeld, Susan I.	Sausalito, Cal.
Bohi, Robert Y.	Baltimore, Md.
Bosnick, Ned.	Pittsburgh
Bradford, A. Irving	Newport, N. J.
Bukowitz, Daniel	Baltimore, Md.
Bunyan, Mary W.	Highland Park, N. J.
Cappello, Arthur	North Haledon, N. J.
Carver, Joseph B.	Beaver
Charles, Robert D.	Harrisburg
Chiarello, Robert V.	Brooklyn, N. Y.
Cieselka, Julius J., Jr.	Philadelphia
Clements, R. Scott	Windsor, Conn.
Cohen, Peter C.	Scarsdale, N. Y.
Cohen, Richard D.	Margate City, N. J.
Conner, J. Eugene W.	Wilkes-Barre
Conrad, Patricia M.	Westwood, N. J.
Coston, Willis D., II	Kingston
Cowling, Anita L.	Grosse Pointe Pk., Mich.
Culley, Caroline L.	North Brunswick, N. J.
Cummings, Leta E.	Camp Hill
Davis, John R.	Shillington
Davis, Robert M.	Newtown Square
DeMarino, Thomas J.	Greensburg
DePasquale, Sam C.	Pittston
Dornin, Marcia	Washington, D. C.
Dorsey, Carol S.	Phoenix, Md.
Duel, Arthur B., III	Southport, Conn.
Eames, Robert F.	Yardley
Egolf, Kenneth L.	Carlisle
Eisenlohr, Barbara E.	Arlington, Va.
Eisenstein, Abraham S.	Jackson Heights, N. Y.
Falconer, Bruce F.	Trenton, N. J.
Faunce, Robert E.	Philadelphia
Flack, Judith A.	Woodbury, N. J.
Ford, David M.	Baltimore, Md.
Foster, Patricia J.	Red Lion
Frey, Evan C.	Lansdowne
Fullerton, William D.	Herminie
Gardner, Edward F.	Wallingford
Gardner, Jack H.	Pittsburgh
Gardner, Michael R.	Harrisburg
Gerlach, Walter P.	Lexington, Ky.
Gill, Carolyn C.	Ruxton, Md.
Gillum, David F.	Glenside
Gilmour, F. L. Patton	Swarthmore
Glass, Lionel	Philadelphia
Goldberg, Richard M.	Kingston
Gompf, Dorothy E.	Baltimore, Md.
Gordon, Robert	Reading
Gordon, Ruth M.	Lancaster
Gottschall, Everett E.	Roslyn

Gourley, Carolyn B.	Lancaster
Graden, Susan M.	West Covina, Calif.
Greenhut, Philip H. S.	New Rochelle, N. Y.
Griggs, Paul D.	Upper Darby
Grimison, Esther M.	Huntingdon
Grove, David L.	Johnstown
Gruver, Elmer J., Jr.	Shippensburg
Hammatt, Linda H.	York
Harvey, Rodney R.	Wilmington, Del.
Hitchner, Kenneth W., Jr.	West Pittston
Hooff, L. Ann.	Washington, D. C.
Horlacher, Jocelyn R.	Carlisle
Hornstein, Howard B.	New York, N. Y.
Hubscher, Earl M.	Trenton, N. J.
Humes, Walter W.	Tarentum
Huyett, Scott L.	Laureldale
Jackson, James A.	Plandome, N. Y.
Johnson, Stockton G., Jr.	Jenkintown
Jones, Henry C.	Pottsville
Kennedy, Elizabeth R.	Scarsdale, N. Y.
Kenney, James A., III	Salisbury, Md.
Kittredge, Sally L.	Baltimore, Md.
Klein, Joseph A.	Harrisburg
Kollas, Helen C.	Carlisle
Kulp, Jonathan B.	Norristown
Laird, F. Judson, III	Moylan
Laning, E. Luann	Toms River, N. J.
Lemkau, Ann R.	Ruxton, Md.
Lemons, Nancy M.	Oxford
Leppo, David L.	Hampstead, Md.
LeVan, Joan M.	Hatfield
Lindenmuth, Paul F.	Baltimore, Md.
Linton, Charles H.	Havertown
Liu, Allan J.	New York, N. Y.
Livezey, G. Kessler, III	Aberdeen, Md.
Lober, John C.	Linwood
Lockwood, Roy H.	Silver Spring, Md.
Lory, Priscilla S.	Fairfax Station, Va.
Lotke, Paul A.	Melrose Park
Lovejoy, Barbara S.	Little Silver, N. J.
Lucas, Ferdinand C., IV	Castania
McCarty, Carol L.	Mechanicsburg
McElrath, Charles D.	Nescopeck
McKinney, J. Bruce	Butler
Marcus, Norman R.	New York, N. Y.
Marsh, Donald R.	Indiana
Martin, Kenneth R.	Drexel Hill
Martin, Mary R.	Basking Ridge, N. J.
Matyjaszek, Jack E.	Philadelphia
Maurer, Emil G., Jr.	Greenville, Del.
Menin, Henry L.	Philadelphia
Merrifield, A. Vaughn	York

Miele, Joseph R.	Williamsport
Milligan, Judith A.	Avon-by-the-Sea, N. J.
Moore, Thomas L., Jr.	Oakmont
Moran, Nancy J.	Voorheesville, N. Y.
Morris, Jane E.	Martinsburg, W. Va.
Mowrer, Gordon B.	Bethlehem
Mull, William H.	Williamsport
Murray, Susan D.	Endicott, N. Y.
Myers, Frances E.	Temple
Naditch, Ronald M.	Baltimore, Md.
Norton, Frederick C.	Silver Spring, Md.
Olewiler, H. Newton	Bethlehem
Oram, Reginald S.	Berwick
Pappas, James N.	Harrisburg
Parker, Oliver, Jr.	Allendale, N. J.
Parkins, Janet E.	Berwyn
Paules, Palmer L.	Red Lion
Peer, A. Kenneth	Short Hills, N. J.
Peer, Nancy J.	New Cumberland
Phillips, Cynthia J.	Freeport, N. Y.
Potts, John H.	Haverton
Pusey, G. Kirk	Avondale
Quin, Nancy R.	West Pittston
Rademan, Alan N.	Philadelphia
Reddicks, Cora L.	Bluefield, W. Va.
Reed, W. Creighton, Jr.	Strafford-Wayne
Richards, Thomas W.	McKeesport
Robinson, Arlene P.	Falls Church, Va.
Roney, Denise M.	Carlisle
Roth, Stephen J.	New Brunswick, N. J.
Rubin, Kenneth J.	Jamaica, N. Y.
Rudolph, Jill L.	Arlington, Va.
Rutherford, Margaret M.	Katonah, N. Y.
Savage, Allen R.	Chester
Savage, Barbara B.	New Brunswick, N. J.
Scarborough, John M.	Churchville, Md.
Schwalm, Janet E.	Pottsville
Seewald, Ann L.	Linden
Shapley, Robert E.	Fort Wayne, Ind.
Shepherd, John W.	Philadelphia
Shipman, Franklin L.	Shamokin
Silber, Richard J.	Bristol
Skarlatos, Angelo	Carlisle
Slater, Albert H., III	Pittsburgh
Slevin, Edward D.	Hanover
Slomin, Bruce D.	Massapequa, N. Y.
Smith, Alan M.	Silver Spring, Md.
Smith, William T.	Harrisburg
Snyder, Roberta L.	Hagerstown
Sook, Barbara A.	Bala-Cynwyd
Spahr, Christian C. F., Jr.	Rosemont

Spangenberg, George W.	Port Jervis, N. Y.
Spangler, Leonard E.	Carlisle
Stafford, John R.	Elizabeth, N. J.
Statler, Sandra G.	Oil City
Stefanon, Ernest A.	Herminie
Street, Blair P.	Chester
Tar, John	Budapest, Hungary
Teitelman, Edward A.	Philadelphia
Templeton, Pamela B.	Florham Park, N. J.
Test, Donald R.	Wayne
Torrey, Lois M.	Carlisle
Updegraff, William E.	Williamsport
Valenti, John T., Jr.	Wilkes-Barre
Vedder, Christina S.	York
Vilms, Jaak	Seabrook, N. J.
Wachter, David A.	Hagerstown, Md.
Wade, James P., Jr.	Randallstown, Md.
Wagner, E. Reginald	Mt. Holly Springs
Waite, James A.	Bellefonte
Walker, David T.	Norristown
Wallace, Bruce A., Jr.	Merchantville, N. J.
Weaver, Greta	Woodstown, N. J.
Weber, Nancy L.	Alexandria, Va.
Weiss, Norma S.	Harrisburg
Wert, F. Douglass, Jr.	Camp Hill
Williams, John E., III	Lansdowne
Williams, Martha H.	Stroudsburg
Wilson, Beverley B.	North Wales
Witting, Mary L.	Bloomsburg
Witting, William C.	Arlington, Va.
Wood, Leonard A., Jr.	Camp Hill
Wright, Thomas D.	Fombell
Young, Robert E.	Harrisburg
Zubrin, Jay R.	Camden, N. J.
Zukerman, Harvey J.	Wyncote

Juniors

Andolf, Goran N.	Linkoping, Sweden
Amundsen, Arthur R.	Philadelphia
Avakian, Yoorik S.	Teheran, Iran
Ayers, David	Wilkes-Barre
Ayres, Richard M.	Hershey
Azin, Doris A.	Mohegan Heights, N. Y.
Barna, Kyra A.	Monongahela
Barner, Ann C.	Baden
Barnshaw, Robert W.	Merchantville, N. J.
Bass, Herbert	Pleasantville, N. J.
Bauer, Thomas L.	York
Beasley, Donald E.	Harrisburg
Beck, Judith T.	Chevy Chase, Md.
Bell, Deanne M.	Harrisburg

Bell, Richard W.	Fairfield, Conn.
Bendell, Alfred S., III	Hagerstown, Md.
Bitner, Richard L.	Carlisle
Bloom, Frederick E.	Bellefonte
Boehm, Casper P., Jr.	Sewaren, N. J.
Bomgardner, Larry J.	New Cumberland
Bond, Carole R.	Aruba, Netherlands Antilles
Borgstede, Margaret E.	Lynbrook, N. Y.
Bowen, R. Blair	Millville, N. J.
Breen, Donald A.	McKeesport
Brown, Charles R.	Dunellen, N. J.
Browning, Robert P.	Dalton
Buchanan, Sherman W.	Mapleton Depot
Buckwalter, Robert K.	Lancaster
Bupp, David W.	York
Caffrey, John R.	Wilmington, Del.
Capper, Daniel S.	McLean, Va.
Chantry, Walter J.	Philadelphia
Clair, Joseph R., III	Philadelphia
Clark, W. Herdman, Jr.	Pittsburgh
Clarkson, Sally V.	Towson, Md.
Collins, Alexander T., III	Greensburg
Cordner, Joseph, Jr.	Camden, N. J.
Coutant, Robert W.	Briarcliff Manor, N. Y.
Crawford, Robert W., Jr.	Philadelphia
Crayton, J. Roger	Kingston
Cross, Nancy H.	Norristown
Crowley, Marjorie J.	Hatboro
Curley, John J.	Easton
Davis, Donald W.	Stamford, Conn.
Davis, Wayne J.	Philadelphia
DeArment, Warren E.	Burnham
Deichler, Sandra A.	Upper Darby
Derenzo, Ronald T.	Minersville
DiBlasio, Joseph D.	Hershey
DiGioia, Anthony J.	Philadelphia
Dilts, Robert G.	Butler
Doerr, Joan E.	Bethesda, Md.
Duncan, H. Scott	Wynnewood
Eisenstat, Saul	Philadelphia
Elinsky, Joseph P.	Nanticoke
Everett, Mary M.	Carlisle
Eves, Judith A.	Oakmont
Faett, Ronald S.	Pittsburgh
Falvello, Rocco A.	Hazleton
Feinstein, Michael J.	Margate City, N. J.
Ferree, David C., Jr.	Mt. Holly Springs
Fisher, Edward J., Jr.	Carlisle
Fitzpatrick, R. Kerk	Peekskill, N. Y.
Floyd, James R.	Harrisburg
Flynn, William J., Jr.	Drexel Hill
Foerster, Jerome, T.	Dauphin

Ford, William C.	Baltimore, Md.
Foster, E. Bernice	Maplewood, N. J.
Fox, Mary F.	Haddonfield, N. J.
Freas, Ann	Bethesda, Md.
Freeman, Mark H.	Birdsboro
Freeman, William A.	Shippensburg
Fried, Robert J.	Harrisburg
Fulmer, William C., Jr.	Bethlehem
Gardner, George F.	Wilmington, Del.
Garfinkle, William B.	Philadelphia
Gayner, Dottie L.	Wheeling, W. Va.
Gilvear, Elaine E.	Philadelphia
Gohn, Sonja R.	Baltimore, Md.
Gordon, John S.	Chadds Ford
Graham, David	Philadelphia
Graham, Judith M.	Flourtown
Green, Lawrence	Ventnor, N. J.
Greene, Alex B.	Saint Clair
Griffith, Elizabeth A.	Aldan
Gruhn, Isebill V.	Flushing, N. Y.
Haeussler, Charles L.	Shillington
Halbert, Edward	Carlisle
Hall, Elizabeth J.	Titusville
Hall, John T., III	Baltimore, Md.
Hallam, Dale O., Jr.	Bridgeville
Hamrick, Sandra L.	Fairfield, Conn.
Hankey, Carl W.	Wilkes-Barre
Harbourt, Walter B.	Hackettstown, N. J.
Hart, George E.	Rock Glen
Heine, Judith L.	Newport
Helfrich, Carol A.	Drexel Hill
Henwood, Dorothy E.	Wilkes-Barre
Hepner, Richard M.	Bridgeton, N. J.
Hetsko, Jacqueline V.	Ridgewood, N. J.
Hewitt, John E., Jr.	New Cumberland
Hitchens, William R., Jr.	Wilmington, Del.
Hoadley, William C.	Trumbull, Conn.
Holden, Joseph G. A.	Harrisburg
Hollister, Sarah A.	Valley Stream, N. Y.
Hukill, David G.	Ridgewood, N. J.
Imber, Harold S.	Reading
Ingoglia, Gina H. P.	Forest Hills, N. Y.
Jaeger, John R., Jr.	Baltimore, Md.
Jones, Edna H.	Hazleton
Jones, Robert C.	Wayne
Kaas, Jeanne A.	Pottstown
Kappel, Joan P.	Altamont, N. Y.
Kean, Ruth E.	Woodbury, N. J.
Kent, Stephen K., Jr.	Haverford
Keyes, Norman R., Jr.	Oaks
Kirk, Delbert T., Jr.	Philadelphia
Klansek, Joyce B.	Scranton

Knuth, Andrew J., Jr.	West Caldwell, N. J.
Koehler, Herbert G.	Bridgeport, Conn.
Krosney, Neil M.	Margate City, N. J.
Kryston, Victor J.	Chester, N. J.
Kurtz, Richard A.	Harrisburg
Lacy, Kenneth B.	Pennsauken, N. J.
LaNeve, James A.	Mechanicsburg
Lawton, Gary E.	Media
Lear, Joyce L.	Carlisle
Lebo, Nelson F.	Lambertville, N. J.
Leedy, William R.	Woodbury, N. J.
Leighton, Stephen B.	Brooklyn, N. Y.
Leopold, Marx S.	Philadelphia
Lewis, Calvin A.	Elmira, N. Y.
Lipsky, William R.	Philadelphia
Lizza, Carl J.	Oyster Bay, N. Y.
Long, Sondra V.	Baltimore, Md.
Lovnes, Neal W., Jr.	Carlisle
McCrary, James F.	Camp Hill
McGahey, David L.	Philadelphia
McGee, Philip T., II	Williamsport
McGuckian, Paul A.	Silver Spring, Md.
Maat, Howard J.	Hagaman, N. Y.
Mahn, Barbara H.	Delanco, N. J.
Mark, Jon R.	Huntingdon
Matuska, Janet L.	Palmerton
Meredith, Samuel E.	Greenwood, Del.
Merrick, Spencer, III	Baltimore, Md.
Miller, Roger E.	West Reading
Moring, Sharon A.	Los Altos, Calif.
Muncaster, Amy K.	Pittsburgh
Mussano, Virginia F.	Monessen
Obermiller, Carol M.	Ambler
Orlich, Ricardo J.	San Jose, Costa Rica
Ort, Robert B.	Hackettstown, N. J.
Paxson, Neil B.	Westfield, N. J.
Pence, Robert L.	Brookville
Perkins, Charley Ann	Carlisle
Phillips, James W.	Prospect Park
Phillips, Katherine P.	Baltimore, Md.
Phillips, William M., Jr.	Flourtown
Phipps, Dorothy A.	Williamsport
Pitock, Jordon R.	Philadelphia
Pollock, Wayne C.	Baltimore, Md.
Price, Thomas B., Jr.	Beaver
Prosky, Jill J.	New York, N. Y.
Proud, Donald E.	Wilmington, Del.
Purvis, Lucy E.	Fanwood, N. J.
Quirk, John J.	North Plainfield, N. J.
Reisinger, Letitia A.	Chevy Chase, Md.
Richards, James B.	Plymouth Meeting

Richardson, Robert D.	Dallas
Richtmyer, Rosemary	Bethesda, Md.
Rifkin, Gerald B.	Shamokin
Roberts, Donald W.	Baltimore, Md.
Robison, W. Emily	Mamaroneck, N. Y.
Rogers, Daniel E.	Homestead Park
Ross, John B.	New Kensington
Rowe, Charles A.	Columbus, Ohio
Ryder, Harriet T.	Verona, N. J.
Sands, Frank M.	Arlington, Va.
Shafer, Harrey E., Jr.	Hazleton
Shapiro, Bennett M.	Philadelphia
Shea, Wendy K.	New York, N. Y.
Sheard, A. Alexander, III	Gulph Mills
Shedd, Paula M.	Washington, D. C.
Shick, Blair C., Jr.	Upper Darby
Shuman, John F.	Allentown
Simoni, Judith A.	Cochituate, Mass.
Sinclair, Suzanne S.	Kennett Square
Slifkin, Robert F.	Elkins Park
Smeltz, Allen G.	Sacramento
Smith, Eleanor L.	Baltimore, Md.
Smith, Harold J.	Carlisle
Sobel, Barbara	Harrisburg
Solomon, M. Jerome	Harrisburg
Spector, William I.	West Chester
Spring, Charles M.	Wayne
St. Clair, M. Elizabeth	Washington, D. C.
Steege, Richard C.	Ardmore
Stellfox, Jean L.	Mount Carmel
Stine, J. David	Villanova
Stoddard, William G.	Woodbridge, Conn.
Surrick, Richard B.	Swarthmore
Taylor, Jon K.	Baltimore, Md.
Taylor, Michael A.	West Orange, N. J.
Tegtmeier, Merle E.	Ruxton, Md.
Thompson, Peter M.	Morris Plains, N. J.
Thunberg, Richard H.	Erie
Trelogan, Robert M.	Arlington, Va.
Villa, Orterio J.	Berwick
Vittrup, Muriel H.	San Francisco, Calif.
Wachter, Robert C.	Hagerstown, Md.
Wallack, Maurice	Flushing, N. Y.
Ward, Judith A.	Princeton, N. J.
Washburn, David E.	Massapequa Park, N. Y.
Weigel, Ellen L.	Carlisle
Weiner, Earl D.	Baltimore, Md.
Wells, Viola B.	Bordentown, N. J.
Wertheimer, Susan E.	Larchmont, N. Y.
Wherly, Carolyn J.	Harrisburg
Whichard, William B.	Washington, D. C.
White, Robert A.	Havertown

Wiley, Jan M.	Dillsburg
Willard, John L.	Glenside
Williams, David O.	Silver Spring, Md.
Williamson, Robert G., Jr.	Clarks Green
Wilson, Robert T.	Orbisonia
Wisor, Charles E.	Clearfield
Worthington, Robert A.	Pittsburgh
Yahraes, John E.	Norristown
Zimmermann, William M.	Wayne
Zwally, Charles B.	Ephrata

Sophomores

Aaron, Antonie	Highland Park, N. J.
Abendong, Zacharia A.	British Cameroons
Adams, Andrea L.	Reading
Ahlstrom, Dennis M.	Youngstown, N. Y.
Akhurst, H. Walter, Jr.	Pearl River, N. Y.
Alley, Albert A.	Berwick
Andrews, Peter R.	Bethlehem
Annis, Malcolm P.	Arlington, Va.
Arters, Gerald E.	Lima
Babitts, Michael R.	Wynnewood
Baily, Mary F.	Kennett Square
Baldauff, Michael C.	Butler
Barber, Kenneth J., Jr.	Huntingdon Valley
Barnes, Bradley M.	Wayne
Barr, Elizabeth J.	Claymont, Del.
Bartleson, Jeanne L.	Fanwood, N. J.
Bartoli, James C.	Carlisle
Batchelder, Adele	Lynn, Mass.
Bentzel, Harold R.	Dillsburg
Bertholon, Bruce A.	Glen Ridge, N. J.
Bingaman, Lynda R.	Wyomissing
Blackburn, Barbara A.	Danbury, Conn.
Bloom, James J.	Margate City, N. J.
Bolter, Andreas H.	Camp Hill
Boney, James D.	Reading
Branin, Howard T., Jr.	Haddenfield, N. J.
Briner, Ruth A.	Johnsville
Brown, Alan S.	Harrisburg
Brown, Geoffrey N.	Greenwich, Conn.
Buffington, Catherine M.	Baltimore, Md.
Butler, W. Ress	Metuchen, N. J.
Byron, James W.	Ridgewood, N. J.
Caesar, Bernard W.	Rye, N. Y.
Cairns, Dorothy A.	Rockaway, N. J.
Campbell, Kenneth L.	Short Hills, N. J.
Carpenter, H. Glenn, Jr.	Johnstown
Carton, Robert V., Jr.	Interlaken, N. J.
Chambers, E. Gailey	Media
Chambers, Faith E.	Riverton, N. J.
Chigounis, Anthony C.	Merchantville, N. J.

Christiansen, Carol J.	Valley Stream, N. Y.
Christman, Sally A.	Doylestown
Claeren, Wayne H.	Pittsburgh
Cohen, Edwin E.	Harrisburg
Cohen, Harold J.	Harrisburg
Cohen, Marshall H.	Harrisburg
Cole, Robert T.	Carlisle
Comly, David	Philadelphia
Comly, John, Jr.	Philadelphia
Cramp, Audrey J.	Carlisle
Cramp, Norma F.	Carlisle
Cressman, Walter H.	Richlandtown
Cromer, Raymond E.	Hanover
Curry, Edward L.	Washington, D. C.
Danner, Harry B., II	Richboro
Dasher, Barry L.	Carlisle
Davis, James E.	Silver Spring, Md.
Davis, Stephen	Brookfield, Conn.
Davison, John R.	Pittsburgh
Derr, Joanne F.	Frederick, Md.
DesMarais, Stanley F.	Kennett Square
Detterline, Ruth A.	Wayne
Diehl, Robert E.	Towson, Md.
Dinger, Timothy S.	DuBois
Dollar, Robert W.	Maraciabo, Venezuela
Dorman, Paul D.	Philadelphia
Douglass, Mary A.	Harrisburg
Dowd, Margaret M.	New York, N. Y.
Doyle, Joseph C.	Butler
Dubrick, William C.	Clarks Green
Ehrlich, Gary L.	Baltimore, Md.
Eisenberg, Gerald R.	Baltimore, Md.
Elicker, Lewis E., III	Harrisburg
Emkey, Ronald D.	Berwick
Engelke, Judith E.	Balboa Heights, Canal Zone
Ewing, J. Nash	New Cumberland
Falone, Dianne E.	Camden, N. J.
Featherer, Esther J.	Carneys Point, N. J.
Fischer, Mary L.	Lancaster
Fitzkee, Harold N., Jr.	York
Fleishman, Alan M.	Berwick
Flory, Richard A.	East Stroudsburg
Fluke, Allan L.	Oakmont
Flutie, Richard E.	Baltimore, Md.
Foor, Robert W., Jr.	Harrisburg
Forsyth, George A.	Avon, N. J.
Froehlich, Charles O., Jr.	Harrisburg
Gibbs, Barrie D.	Somerset
Gibbs, Susan L.	Woodbridge, Conn.
Gilfillan, Robert G., III	Swarthmore
Goas, Thomas B.	Livingston, N. J.
Gottesmann, Rosemary	Flushing, N. Y.

Gottshall, Frederick S.	Ardmore
Gray, E. Dorsey	St. James, N. Y.
Greenberg, Carol D.	Patchogue, N. Y.
Greski, Anthony T., Jr.	Burlington, N. J.
Grimm, L. Emily	Carlisle
Guckles, Albert D.	Springfield
Hagler, Lewis	Forest Hills, N. Y.
Halpin, John W., Jr.	Toms River, N. J.
Hanan, Sandra M.	Binghamton, N. Y.
Haug, J. Reid	Bradford
Haynes, Melissa N.	Port Washington, N. Y.
Hays, Nancy J.	Ambler
Heppenstall, John A.	Pittsburgh
Herb, Richard N.	Ardmore
Hermann, Michael J.	Middleburg
Herz, Thomas H.	Silver Spring, Md.
Hess, W. Lawrence	Lebanon
Hitchens, Carol L.	Wilmington, Del.
Hoberman, Alfred E.	Lock Haven
Holmes, Edward W.	Port Chester, N. Y.
Holt, June E.	King of Prussia
Holt, Robert G., Jr.	DuBois
Hoopes, Herman M., Jr.	Metuchen, N. J.
Hornbein, George C.	Akron, Ohio
Howe, J. Elaine	Burlington, N. J.
Howell, Alfred J.	Honesdale
Hubleby, Susanna Y.	Madison, N. J.
Humphrey, Chester B.	Chevy Chase, Md.
Humphrey, William D.	Ambler
Hunsicker, Nina S.	Cragsmoor, N. Y.
Hurst, John L., III	Berwick
Hutchison, Judith A.	Vineland, N. J.
Jaciw, Lydia T.	Harrisburg
Jaeger, Allen W.	Roxbury, Conn.
Jaloviczky, Steven	Nagykoros, Hungary
James, Hugh W.	Wilmington, Del.
Jann, Arthur R.	Clark, N. J.
Janssens, Margot L.	Bedford
Jenkins, Arthur L., Jr.	Scranton
Jenkins, Charles S.	Manhasset, N. Y.
Johnson, Douglas E.	Avon, N. J.
Johnson, Linda M.	Garden City, Mich.
Kammerer, Carol J.	Lancaster, Ohio
Keat, Elizabeth A.	Chatham, N. J.
Keller, Adam	Carlisle
Keller, David W.	Harrisburg
Kelly, Patricia M.	Bay Shore, N. Y.
Kelso, Barbara J.	Westfield, N. J.
Keuch, Barbara A.	Hazleton
Klussmann, Bruce E.	Bradford
Kiser, Jane C.	Upper Darby
Krause, Gretchen	Lebanon
Kronenberg, Eves	Carlisle

Kulchin, Matthew S.	New York, N. Y.
Kurtz, Robert W.	Pittsburgh
Kuykendall, Gretchen A.	Washington, D. C.
Lawn, Marjorie N.	Downingtown
Layng, W. John	Springfield, N. J.
Leabman, Daniel L.	Philadelphia
Lehnartz, David F.	Briarcliff Manor, N. Y.
Levy, Philip A.	Trenton, N. J.
Lewis, L. Lance	Pittsburgh
Lindberg, Stanley W.	Warren
Lindsay, Margaret E.	Camden, N. J.
Logan, John D.	Mountain Lakes, N. J.
Logan, Judith L.	York
Lohmann, Watson M.	Wynnewood
Long, Joseph C.	Carbondale, Ill.
Ly, Luoeng	Battambang, Cambodia
MacKenzie, Malcolm K., Jr.	Old Greenwich, Conn.
McCabe, Kendall K.	Berlin, Md.
McCarthy, Charles R.	Carlisle
McCormick, P. Reed	Troy
McCormick, William J.	Pittsburgh
McFarland, Harold B., III	Wyncote
McKelvey, David A.	Springfield
McNutt, Robert L.	Philadelphia
McShane, Franklin J.	Medford Lakes, N. J.
Macaulay, Joanne W.	Wynnewood
Manis, Robert E.	Philadelphia
Marcucci, W. Carey	Philadelphia
Mark, Bernard F., Jr.	Collingswood, N. J.
Markley, Charles A.	Harrisburg
Marron, Carol J.	Jackson Heights, N. Y.
Martin, Sandra L.	Pittsburgh
Mason, Richard S.	West Nyack, N. Y.
Massey, Gail	Washington, D. C.
Matta, Elizabeth A.	Brownsville
May, C. Kent	Glenshaw
Mecum, Lois A.	Lancaster
Mercer, Peter W.	Watertown, Mass.
Metzger, William F.	Baltimore, Md.
Miller, Barbara S.	Glastonbury, Conn.
Miller, Virginia L.	Tyrone
Morrissey, J. Michael	West Lawn
Morton, Albert W., III	Philadelphia
Mumma, Mark	Harrisburg
Myers, Robert P.	Hanover
Nagel, Madelyn J.	Teaneck, N. J.
Neiman, Charles A.	York
Nesbitt, Lynne	Bethesda, Md.
Neuber, Jane A.	Lancaster
Newell, Nancy J.	Fanwood, N. J.
Noble, Jane E.	Brooklyn, N. Y.
Norris, John W.	Curwinsville
Nuttle, Henry L. W.	Denton, Md.

Ober, William J.	Derry
Oiler, Franklin A.	Newville
Page, Ronald C.	Princeton, N. J.
Paley, I. David	Coatesville
Paul, C. Marshall	Philadelphia
Perot, James	Flourtown
Piel, W. Louis	Baltimore, Md.
Platt, William H.	Emmaus
Quann, Byron G.	Harrisburg
Ramos-Umpierre, Antonio	Santurce, Puerto Rico
Reamy, Barbara A.	Baltimore, Md.
Reed, John H.	Strafford-Wayne
Rice, Margot D.	New Windsor, Md.
Richardson, Fred S.	Newville
Richmond, Judith B.	Peconic, N. Y.
Riethmiller, Lynn G.	Pittsburgh
Rourke, Lowndes E.	Orange, Conn.
Ruth, Jon K.	Darien, Conn.
Rybnik, John M.	Scranton
Sackman, Alan	Warwick, N. Y.
Schecter, Lawrence M.	Cheltenham
Schomaker, Lee K.	Pittsburgh
Scott, Catherine P.	Clearfield
Semler, David A.	Hagerstown, Md.
Seybrecht, Carla J.	Ashland
Shields, Sandra E.	Butler
Sidle, Allan C.	Baltimore, Md.
Singer, Michael H.	Philadelphia
Sjamsuridjal, Muljono	Djakarta, Indonesia
Skladany, Jan P.	Pittsburgh
Slaney, David F.	Pittsburgh
Smith, Bruce L.	Union City
Smith, Roger M.	Silver Spring, Md.
Smyth, William N.	Roslyn, N. Y.
Spire, Joan E.	Hummelstown
Stanley, Charlotte D.	Pittsburgh
Stephens, John T., Jr.	Charlotte, N. C.
Stevens, Virginia J.	Philadelphia
Stevenson, David G.	Bound Brook, N. J.
Street, John E., Jr.	Carlisle
Strohecker, James R., Jr.	Harrisburg
Stroyd, Claudie A.	Pittsburgh
Stuhlmuller, Kimball R.	Springdale, Conn.
Sullivan, M. Keith	Camp Hill
Swartley, Steven W.	Souderton
Taft, Eleanor W.	Brooklyn, N. Y.
Takacs, Julius M.	Bogyog, Hungary
Tar, Irene	Budapest, Hungary
Taub, Marvin J.	Binghamton, N. Y.
Templeton, James E.	Severna Park, Md.
Tepel, Frederick A., Jr.	Williamsport
Teranzo, John, Jr.	Burlington, N. J.

Thieler, William R.	Philadelphia
Thomas, Polly B.	Mechanicsburg
Thome, Barbara J.	Mount Joy
Thompson, Patricia A.	Mt. Holy Springs
Thomson, Mary L.	West Chester
Thun, Katrina.	Wyomissing
Tickner, Alexander M., Jr.	Severna Park, Md.
Tow, Raymond M.	Falmouth, Mass.
Trevlyn, Richard L.	Ocean City, N. J.
Tyler, William G., III.	Cockeysville, Md.
Unger, William G.	Berwick
Van Culin, Susan H.	Point Pleasant, N. J.
Vickery, Richard A., Jr.	Hatboro
Villepique, Douglas A.	Glen Rock, N. J.
Walker, Jerolyn L.	Arlington, Va.
Wallace, Angus D.	Newtown Square
Walters, Robert.	Robbinsville, N. J.
Walters, Roland S., Jr.	Ridgewood, N. J.
Walz, Ruth H.	Carlisle
Waxman, Ronald L.	Trenton, N. J.
Wear, Richard C.	Scotch Plains, N. J.
White, Harold N.	Newtown
White, Susan E.	Manhasset, N. Y.
Whitelaw, William R., Jr.	Phoenixville
Wickersham, Barry R.	West Chester
Wilkinson, Bruce F.	Collingswood, N. J.
Wolfe, Roger J.	Carlisle
Wood, Jeffrey C.	Baldwin, N. Y.
Wright, Carol.	Westfield, N. J.
Wylie, Elizabeth G.	Washington, D. C.
Yasinow, Stephen K.	Philadelphia
Younger, George H.	Trumansburg, N. Y.
Zerby, John G., Jr.	Camp Hill

Freshmen

Acton, James N., Jr.	Salem, N. J.
Adam, Sandra A.	Temple
Angeletti, A. Donald.	Brooklyn, N. Y.
Annan, William G.	Ridgewood, N. J.
Armstrong, Roberta A.	Hughesville
Arters, Lee E.	Lima
Austin, Carole E.	Burlington, N. J.
Bahn, Paul W.	Arlington, Va.
Bahrs, Shirley M.	Highlands, N. J.
Baker, John W.	Hanover
Baker, Lawrence E.	Alexandria, Va.
Bashforth, William J.	Pittsburgh
Bates, G. Ross.	Freeport, N. Y.
Batstone, Jerry W.	Norwood, N. J.
Beach, Bruce C.	Northfield, N. J.
Beck, Donald R.	Maplewood, N. J.
Becker, Eugene M.	York

Berkenstock, Joan	Malvern
Biddle, John E., Jr.	Watsonstown
Bidwell, Mary Jane	Simsbury, Conn.
Bitler, William D.	Bloomsburg
Bitner, Jay A.	Camp Hill
Block, Richard A.	Philadelphia
Bowling, Kenneth R.	Baltimore, Md.
Brewin, David L.	Northfield, N. J.
Brigham, Emerson W., Jr.	Monsey, N. Y.
Brown, Bonnie	Easton
Bryan, Linda Jane	Wilkes-Barre
Buckley, Leland H.	Unionville, Conn.
Butcher, William J.	Philadelphia
Cardinali, Patricia L.	Fulton, N. Y.
Cavanagh, Elizabeth A.	Wilmington, Del.
Chandler, Mary A.	Washington, D. C.
Chiccarino, Peter B.	Farrell
Christensen, Samuel L. W.	Wayne
Clarke, William C., III	Baltimore, Md.
Clough, John H.	Princeton, N. J.
Colville, David S.	Philadelphia
Conklin, Alicia M.	Bethesda, Md.
Cook, Sackett S.	Providence, R. I.
Cooper, Mary M.	Denton, Md.
Coronway, Gwendolyn	Glenolden
Couzens, Richard M.	Philadelphia
Craft, Robert S.	Westfield, N. J.
Crane, Sara E.	North Caldwell, N. J.
Crawford, Ralph W., Jr.	Pittsburgh
Crist, Henry S.	South Charleston, W. Va.
Crosby, Gordon N.	Philadelphia
Crum, William E.	Carlisle
Davies, Donald M., Jr.	Lincoln University
Davis, Boyd C., Jr.	West Chester
Davis, Richard A.	Philadelphia
Davis, Thomas S.	Newtown, Square
Dellinger, John K.	Lancaster
Denbo, Jay A.	Moorestown, N. J.
DeVol, Eugene C.	Bala-Cynwyd
Dildine, Melvin M.	Waynesboro
Dillman, James S.	Glenshaw
Dingee, John H., Jr.	Philadelphia
Dowd, Kenneth L., Jr.	Harwich Port, Mass.
Drayton, William A.	Maplewood, N. J.
Enseki, Frances L.	Seabrook, N. J.
Entliss, Andrea A.	Philadelphia
Eten, Frank X., Jr.	Westwood, N. J.
Evangelist, Louis A.	Berwyn
Everhart, Katharine P.	Churchland, Va.
Everstine, Douglas G.	Baltimore, Md.
Fagan, John J.	Long Branch, N. J.
Farr, Martha M.	Tunkhannock

Fasnacht, Michael C.	Ephrata
Fatula, Margaret E.	Philadelphia
Feffer, Phyllis J.	Sparks, Md.
Feraco, Joseph A.	Philadelphia
Ferguson, Thomas M.	Hanover
Fernandez, Ronald J.	San Jose, Costa Rica
Fernsler, John P.	Robesonia
Field, Maurice B., Jr.	Newark, Del.
Fine, Jeffrey R.	Woodmere, N. Y.
Fine, John S., Jr.	Dallas
Fineshriber, William H., IV	New York, N. Y.
Fish, Roger C.	Berwick
Fishel, Gary L.	Boiling Springs
Fisher, Barry L.	Bridgeton, N. J.
Fletcher, Daniel A.	Cumberland, Md.
Fogg, Barbara P.	Moylan
Foreman, Elane L.	Babylon, N. Y.
Foster, Mary R.	Carlisle
Fox, Charles A.	Mt. Kisco, N. Y.
Frazier, John M.	Lancaster
Freeman, Robert A.	Shippensburg
Fretz, Michael W.	Lock Haven
Frost, Virginia D.	Pelham, N. Y.
Gallit, Bruce	Colonia, N. J.
Garcia, Sergio E.	Aguascalientes, Mexico
Garwood, Griffith L.	Washington, D. C.
Geiger, Frederick C., Jr.	Annapolis, Md.
Gibbs, Richard H.	Somerset
Gilbert, Frederick S.	Pelham, N. Y.
Giorgio, Benjamin D.	Norristown
Goodman, Roger A.	Millville
Gordon, Pauline	Bloomington, Ind.
Gordon, William D., Jr.	Pittsburgh
Goss, N. Bryson	Lewistown
Gowdy, Bert S., Jr.	Langhorne
Graham, Elizabeth A.	Philadelphia
Grainger, Robert R., Jr.	Glenolden
Green, Karl R.	North Plainfield, N. J.
Greenfield, F. Scott	Coatesville
Hahn, Robert R.	Rutherford, N. J.
Hammond, Elizabeth L.	Towson, Md.
Hand, Dorothy C.	Philadelphia
Harding, Harriet C.	Millington, N. J.
Harlowe, Robert S.	Dumont, N. J.
Harper, William C., III	Glenside
Harry, Jane G.	Manchester, Conn.
Hasenritter, Ellen J.	Havertown
Heggan, Elizabeth A.	Sewell, N. J.
Heidner, Carolyn A.	Carlisle
Hetrick, L. Bruce	Camp Hill
Hetrick, Victor J., Jr.	Hummelstown
Hoch, Harry R.	Carlisle
Hoffman, Parnell H.	Altoona

Holston, John S., Jr.	Woodbury, N. J.
Hoopes, Marcia M.	Devon
Horsley, Richard A.	Narberth
Howell, Christopher S.	Silver Spring, Md.
Hubbard, Cortlandt V., Jr.	Philadelphia
Huey, Marshall H., III	Laureldale
Huff, Richard H., Jr.	New Bedford, Mass.
Hyman, Charles W.	Wilkes-Barre
Ingram, William L.	Bethesda, Md.
Jackier, H. Kenneth	New Rochelle, N. Y.
Jacobs, Frederic	Brooklyn, N. Y.
James, H. David D.	Philadelphia
Jenney, David	Chester Springs
Joel, Helmuth W., Jr.	Bronxville, N. Y.
John, Jerome F.	Drexel Hill
Johnson, Karen L.	Washington, D. C.
Jones, Carol E.	Hopewell, N. J.
Jones, William F. W.	Philadelphia
Kalis, Howard E., III	Pottstown
Kamka, Gordon C.	Baltimore, Md.
Kappel, Hans K.	Carlisle
Kearney, M. Timothy	Upper Marlboro, Md.
Kelly, Colin P., III	Chester
Kennedy, Charles A.	Carlisle
Kepler, Thomas E.	Havertown
Kerstetter, Julia A.	Altoona
Kipp, David A.	Devon
Klein, Steven R.	Woodmere, N. Y.
Knight, Peter D.	Hamden, Conn.
Knowlton, Neil H., Jr.	Salem, Ohio
Kolesar, Elmer F.	Glen Campbell
Koontz, Sara A.	Bedford
Kopelman, James E.	New Kensington
Kopf, Timothy W.	Staten Island, N. Y.
Kraft, Elizabeth G.	Dover, Mass.
Kreamer, Richard A.	Philadelphia
Kreisberg, Steven E.	Hewlett Harbor, N. Y.
Krome, Edward C.	Elmira, N. Y.
Kunzig, Louis A., III	Carlisle
LaBate, Linda F.	Easton
Lamb, Robert E.	Bryn Mawr
Larcombe, Samuel H., Jr.	Silver Spring, Md.
Lawrence, Carol A.	Wilmington, Del.
Lee, Richard Q.	Chevy Chase, Md.
Leech, Kristin A.	Philadelphia
Leibowitz, Robert E.	Burlington, N. J.
Levin, Marvin I.	Reading
Lewis, Joseph E.	Wyomissing
Line, Larry L.	Carlisle
Lipinski, Joseph F., Jr.	New Kensington
Lum, H. Martin, III	Chambersburg
Lumpkin, Otis A., Jr.	Wilmington, Del.
Lutz, Janet M.	Philadelphia

McClain, Sally J.	Beaver Falls
McDowell, Susan E.	Abington
McKnight, Regis Q.	Jamestown
Machat, Sydney L.	Philadelphia
Madara, Edward S., Jr.	Narberth
Magill, Richard M.	Harrisburg
Malchevsky, Inna	Philadelphia
Mallory, Lewis E., IV	Bradford
Malone, Robert A.	Rockville, Md.
Mann, Richard, Jr.	Douglaston, N. Y.
Mar, Eugene Y. C.	Hyattsville, Md.
Massey, Richard R., Jr.	Wellesley, Mass.
Meade, David C.	Bethesda, Md.
Middleton, William L.	Drexel Hill
Miller, Bernard J.	Philadelphia
Miller, John W., Jr.	Boiling Springs
Miller, Neal	Bayonne, N. J.
Milligan, Andrew, Jr.	Avon-by-the-Sea, N. J.
Mills, Mary F.	Briarcliff Manor, N. Y.
Mitchell, Nathaniel O.	Troy
Mitchell, Penelope L.	Las Vegas, Nev.
Moore, Louis de B., II	Locust Valley, N. Y.
Morrissey, Joseph D.	West Lawn
Morse, Phyllis A.	Closter, N. J.
Morsell, Frederick A.	Brooklyn, N. Y.
Moser, Klara E.	Norwood, N. J.
Mowitz, Lynda A.	Morris Plains, N. Y.
Muncaster, John W.	Pittsburgh
Myers, Jay W.	Lancaster
Ness, Lynne M. D.	Carlisle
Nora, Mary Lou	North Brunswick, N. J.
O'Connor, Margaret M.	Scarsdale, N. Y.
Oppasser, Jack E.	Springfield, N. J.
Overheim, John L.	Camp Hill
Owens, William E.	Baltimore, Md.
Packard, Harry B.	Takoma Park, Md.
Pappas, Dean C.	Bridgeton, N. J.
Passmore, Brinton S.	Chappaqua, N. Y.
Patterson, James W.	Swarthmore
Paul, Robert C.	Riverdale, N. J.
Perot, Anthony M.	Flourtown
Petersen, J. David	Flushing, N. Y.
Pittman, William R.	Baltimore, Md.
Radcliffe, John H.	Fairhaven, Mass.
Rennie, George S., III	Chester
Richards, Stephen E.	Massapequa, N. Y.
Richardson, Edith B.	Glen Ridge, N. J.
Richardson, Keith A.	Swarthmore
Ricks, John D.	Uniontown
Rilling, David C.	Philadelphia
Rimbach, David W.	Lake Shore, Md.
Robb, James P.	White Plains, N. Y.
Robertson, Pryor H.	Morristown, N. J.

Robison, Carolyn L.	Mamaroneck, N. Y.
Roney, William K.	Carlisle
Rood, Audrey A.	South Bound Brook, N. J.
Rosen, Stuart M.	Williston Park, N. Y.
Rosenstein, Walter S.	Forest Hills, N. Y.
Rossell, Nancy G.	Morrisville
Royer, Walter S.	Bethesda, Md.
Rudolph, Eric B.	Baltimore, Md.
Ruhl, Dorothy M.	Manheim
Ruth, Dorothy P.	West Chester
Sadtler, Stephen C.	Ambler
Salter, Edward A.	Chambersburg
Sandmann, Peter B.	Carlisle
Selheimer, Guy M.	North Hills
Senior, Thomas G.	Latrobe
Sharpe, Lee N.	Cleveland, Ohio
Sheffer, Suzanne	Watson town
Shive, Donald L.	Perkasie
Shoff, Millard R.	Hanover
Smith, Charles B.	Philadelphia
Smith, John A.	Norristown
Smith, Ramona A.	Cape May Court House, N. J.
Snyder, James V.	Philadelphia
Spahr, Boyd Lee, III	Blue Bell
Sprague, Abigail P.	Caledonia, Minn.
Steckley, William M.	Harrisburg
Stehley, George F., III	Havertown
Steindel, Carl R.	Moscow
Stockbridge, Kay W.	Farmingdale, N. Y.
Stocker, Carolyn A.	Reading
Stoner, Carl B., Jr.	Harrisburg
Strite, James A., Jr.	Chambersburg
Stuart, H. Wynne	Manhasset, N. Y.
Sunden, Gary R.	Hempstead, N. Y.
Talley, John W.	Philadelphia
Temke, Frederic A.	Harrisburg
Thatcher, Richard S.	Glenside
Thomas, John C.	Mifflinburg
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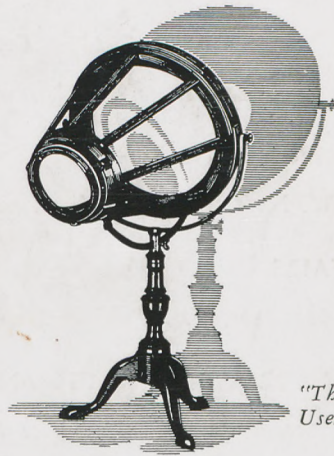
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